



# Decommissioning Cost Estimate Study



Duke Energy Carolinas

Decommissioning Cost Estimate  
Project No. 144936

6/10/2022

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## LIST OF ABBREVIATIONS

<u>Abbreviation</u>	<u>Term/Phrase/Name</u>
1898 & Co.	1898 & Co., part of Burns & McDonnell
BOP	Balance of Plant Facilities
C&D	Construction and Demolition
CC	Combined Cycle
Client	Duke Energy Carolinas
CT	Combustion Turbine
DEC	Duke Energy Carolinas
FGD	Flue Gas Desulfurization
GE	General Electric
HDPE	High-Density Polyethylene
HRSG	Heat Recovery Steam Generator
HT	Hydraulic Turbine
Hydro	Hydroelectric
PCB	Polychlorinated Biphenyls
Plants	Power Generation Assets
SCR	Selective Catalytic Reduction
ST	Steam Turbine
Study	Decommissioning Cost Study

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## 1.0 EXECUTIVE SUMMARY

### 1.1 Introduction

Duke Energy Carolinas (“DEC”) retained 1898 & Co., a division of Burns & McDonnell Engineering Company, Inc. (hereinafter called “1898 & Co.”), to conduct a Decommissioning Cost Study (“Study”) for power generation assets (“Plants”) located in North Carolina and South Carolina. The assets include natural gas-fired, coal-fired, hydroelectric, and solar generating facilities. The purpose of the Study was to review the facilities and to make a recommendation to DEC regarding the total cost to decommission the facilities at the end of their useful lives. The decommissioning costs were developed by 1898 & Co. using information provided by DEC and in-house data available to 1898 & Co.

### 1.2 Results

1898 & Co. has prepared cost estimates in 2022 dollars for the decommissioning of the Plants. These cost estimates are summarized in the following Table. When DEC determines that the Plants should be retired, the above grade equipment and steel structures are assumed to have sufficient scrap value to a scrap contractor to offset a portion of the decommissioning costs. DEC will incur costs in the demolition and restoration of the sites less the scrap value of equipment and bulk recycled metals. Additionally, DEC’s on-site inventory was taken into consideration for the demolition costs. For the combustion turbine facilities, a salvage value of 25 percent was assumed. For the other Plants, 10 percent of the inventory was assumed to be salvageable. The combustion turbine facilities were assumed to have a higher inventory salvage value because spare parts for combustion turbines are more marketable and can be more easily resold to other owners/operators at a higher premium than just the scrap price of the material.

Table 1-1: Decommissioning Cost Summary (2022\$)

Plant	Gross Decom Cost	Inventory Cost	Salvage Credits	Inventory Credits	Net Project Cost
99 Islands	\$ 3,444,000	\$ 48,000	\$ (758,000)	\$ (5,000)	\$ 2,729,000
Allen	\$ 66,380,000	\$ 9,356,000	\$ (33,520,000)	\$ (936,000)	\$ 41,280,000
Bad Creek	\$ 8,376,000	\$ 5,719,000	\$ (11,072,000)	\$ (572,000)	\$ 2,451,000
Bear Creek	\$ 993,000	-	\$ (283,000)	-	\$ 710,000
Belews Creek	\$ 81,445,000	\$ 33,156,000	\$ (35,814,000)	\$ (3,316,000)	\$ 75,471,000
Bridgewater	\$ 2,540,000	\$ 92,000	\$ (799,000)	\$ (9,000)	\$ 1,824,000
Buck	\$ 13,340,000	\$ 8,219,000	\$ (8,373,000)	\$ (821,900)	\$ 12,364,100
Cedar Cliff	\$ 1,328,000	-	\$ (308,000)	-	\$ 1,020,000
Cedar Creek	\$ 2,191,000	\$ 107,000	\$ (945,000)	\$ (11,000)	\$ 1,342,000
Clemson	\$ 719,000	\$ 357,000	\$ (428,000)	\$ (35,700)	\$ 612,300
Cliffside	\$ 75,820,000	\$ 28,973,000	\$ (32,796,000)	\$ (2,897,000)	\$ 69,100,000
Cowans Ford	\$ 3,816,000	\$ 139,000	\$ (4,196,000)	\$ (14,000)	\$ (255,000)

Plant	Gross Decom Cost	Inventory Cost	Salvage Credits	Inventory Credits	Net Project Cost
Dan River	\$ 13,914,000	\$ 9,857,000	\$ (7,355,000)	\$ (986,000)	\$ 15,430,000
Dearborn	\$ 2,152,000	\$ 25,000	\$ (1,135,000)	\$ (3,000)	\$ 1,039,000
Central Storeroom	-	\$ 230,080	\$ (23,008)	-	\$ 207,072
Fishing Creek	\$ 3,174,000	\$ 100,000	\$ (1,461,000)	\$ (10,000)	\$ 1,803,000
Gaston	\$ 4,357,600	-	\$ (2,110,400)	-	\$ 2,247,200
Gaston Shoals	\$ 2,418,000	-	\$ (294,000)	-	\$ 2,124,000
Great Falls	\$ 4,967,000	\$ 26,000	\$ (714,000)	\$ (3,000)	\$ 4,276,000
Hydro Repair	-	\$ 43,500	\$ (4,350)	-	\$ 39,150
Jocassee	\$ 4,632,000	-	\$ (7,224,000)	-	\$ (2,592,000)
Keowee	\$ 3,404,000	-	\$ (2,871,000)	-	\$ 533,000
Lark	\$ 2,087,000	\$ 62,259,000	\$ (198,000)	\$ (6,226,000)	\$ 57,922,000
Lincoln	\$ 16,874,000	\$ 1,761,000	\$ (16,527,000)	\$ (440,000)	\$ 1,668,000
Lookout Shoals	\$ 2,019,000	\$ 127,000	\$ (773,000)	\$ (13,000)	\$ 1,360,000
Maiden Creek	\$ 15,721,600	\$ 63,700	\$ (8,677,000)	\$ (6,400)	\$ 7,101,900
Marshall	\$ 59,297,000	\$ 20,743,000	\$ (38,051,000)	\$ (2,074,000)	\$ 39,915,000
Mill Creek	\$ 5,742,000	\$ 766,000	\$ (6,206,000)	\$ (191,000)	\$ 111,000
Mocksville	\$ 2,963,800	-	\$ (1,099,900)	-	\$ 1,863,900
Monroe	\$ 12,441,400	\$ 45,100	\$ (4,512,500)	\$ (4,500)	\$ 7,969,500
Mountain Island	\$ 2,986,000	\$ 87,000	\$ (1,310,000)	\$ (9,000)	\$ 1,754,000
Nantahala	\$ 1,857,000	\$ 51,000	\$ (838,000)	\$ (5,000)	\$ 1,065,000
Oxford	\$ 1,737,000	\$ 96,000	\$ (898,000)	\$ (10,000)	\$ 925,000
Queens Creek	\$ 1,132,000	-	\$ (197,000)	-	\$ 935,000
Rhodhiss	\$ 2,150,000	\$ 111,000	\$ (935,000)	\$ (11,000)	\$ 1,315,000
Rockingham	\$ 5,896,000	\$ 1,689,000	\$ (6,347,000)	\$ (422,000)	\$ 816,000
Rocky Creek	\$ 4,435,000	\$ 9,000	\$ (1,003,000)	\$ (1,000)	\$ 3,440,000
Tennessee Creek	\$ 2,081,000	-	\$ (386,000)	-	\$ 1,695,000
Thorpe	\$ 3,569,000	-	\$ (527,000)	-	\$ 3,042,000
Tuckasegee	\$ 1,871,000	-	\$ (154,000)	-	\$ 1,717,000
Wateree	\$ 3,419,000	\$ 302,000	\$ (1,690,000)	\$ (30,000)	\$ 2,001,000
Woodleaf	\$ 1,289,100	\$ 9,700	\$ (407,500)	\$ (1,000)	\$ 890,300
WS Lee CT	\$ 1,848,000	-	\$ (1,062,000)	-	\$ 786,000

Plant	Gross Decom Cost	Inventory Cost	Salvage Credits	Inventory Credits	Net Project Cost
WS Lee Boiler	\$ 13,753,000	\$ 1,652,000	\$ (4,614,000)	\$ (165,000)	\$ 10,626,000
WS Lee CC	\$ 13,736,000	\$ 4,411,000	\$ (8,428,000)	\$ (441,000)	\$ 9,278,000
Wylie	\$ 3,024,000	\$ 113,000	\$ (1,405,000)	\$ (11,000)	\$ 1,721,000

The total project costs presented above include the costs to return the sites to an industrial condition suitable for reuse for development as an industrial facility. Included are the costs to dismantle all power generating equipment and balance of plant (“BOP”) facilities and, where applicable, to perform environmental site restoration activities.

## 2.0 INTRODUCTION

### 2.1 Background

1898 & Co., a division of Burns & McDonnell Engineering Company, Inc. (hereinafter called “1898 & Co.”), was retained by Duke Energy Carolinas (“DEC”) to conduct a Study to estimate the decommissioning costs. The assets include natural gas-fired, coal-fired, hydroelectric, and solar generating facilities. Individuals from 1898 & Co. visited the Plants evaluated within the Study in April of 2022. The purpose of the Study was to review the facilities and to make a recommendation to DEC regarding the total cost to decommission and dismantle the facilities at the end of their useful lives. 1898 & Co. has prepared over three hundred decommissioning studies on various types of fossil fuel and renewable power plants. In addition to preparing decommissioning cost estimates, 1898 & Co. has supported demolition projects as the owner’s engineer. In this capacity, 1898 & Co. has evaluated demolition bids and overseen demolition activities. This has provided 1898 & Co. with insight into a broad range of competitive demolition bids, which also assists in confirming the validity of the decommissioning and dismantling estimates developed by 1898 & Co.

### 2.2 Methodology

The site decommissioning costs were developed using information provided by DEC and in-house data 1898 & Co. has collected from previous project experience. 1898 & Co. estimated quantities for equipment based on a visual inspection of the facilities, reviews of engineering drawings, an in-house database of plant equipment quantities, and professional judgment. For each Plant, quantities were estimated for each required task. Current market pricing for labor rates and equipment was then developed for each task. The unit pricing was developed for each site based on the labor rates, equipment costs, and disposal costs specific to the area in which the work is to be performed. These rates were applied to the quantities for the Plants to determine the total cost of decommissioning and dismantling.

The decommissioning costs include the cost to return the site to an industrial condition, suitable for reuse for development of an industrial facility. Included are the costs to decommission and dismantle all the assets owned by DEC at the sites, including power generating equipment and Balance of Plant facilities.

### 2.3 Site Visits

Representatives from 1898 & Co. and DEC visited the sites in April of 2022. A representative portion of the sites was visited. The site visits consisted of a tour of each facility along with DEC representative, Amy Lowery, as well as plant personnel at each of the sites.

The following 1898 & Co. representatives comprised the site visit team:

- Mr. Stephen Henson, Project Manager
- Ms. Abigail Yi, Project Analyst
- Mr. Alec Tapia, Project Analyst

The following table outlines the dates in which the site visits were conducted.

Table 2-1: Site Visit Dates

Plant	Site Visit Date
Dan River	April 25, 2022
Rockingham	April 25, 2022
Belews Creek	April 25, 2022
Buck	April 26, 2022
Marshall	April 26, 2022
Maiden Creek	April 26, 2022
Gaston Solar	April 26, 2022
Lincoln	April 27, 2022
Mountain Island	April 27, 2022
Allen	April 27, 2022
Mill Creek	April 28, 2022
99 Islands	April 28, 2022
Clifside	April 28, 2022
Bad Creek	April 29, 2022
Clemson	April 29, 2022
W.S. Lee	April 29, 2022

### 3.0 PLANT DESCRIPTIONS

The following sections provide descriptions of the Plants included in this Study.

#### 3.1 Simple Cycle / Combustion Turbines

##### 3.1.1 Clemson

Clemson is located at Clemson University in Clemson, South Carolina. The asset consists of a combined heat and power plant. The plant comprises a single combustion turbine (“CT”) with a rating of 13.4 MW. The unit utilizes natural gas.

##### 3.1.2 Lincoln

Lincoln is located in Lincoln County, North Carolina, and consists of sixteen (16) General Electric (“GE”) CTs. Units 1 through 16 have a combined rating of 1,193 MW and began operation in 1995. Natural gas is the primary fuel source for the plant, with fuel oil on site as a secondary source.

##### 3.1.3 Mill Creek

Mill Creek is located in Cherokee County, South Carolina, and consists of eight (8) GE 7EA CTs. Combined, the eight natural gas-fired units have a rating of 563 MW. The plant began operation in 2002. Natural gas is the primary fuel source for the plant, with fuel oil on site as a secondary source.

##### 3.1.4 Rockingham

Rockingham is located in Rockingham County, North Carolina, and consists of five (5) Siemens W501FD natural gas-fired CTs. Each of the five CTs have a rating of 165 MW, combining for 825 MW. The plant began operation in June of 2000. Natural gas is the primary fuel source for the plant, with fuel oil on site as a secondary source.

##### 3.1.5 W.S. Lee CTs

W.S. Lee is located in Anderson County, South Carolina, and began operation in 1968. Units 4 through 6 were retired in 2007 and the plant currently consists of two (2) GE LM6000 natural gas-fired CTs. Unit 7 and Unit 8 each have a rating of 42 MW, combining for 84 MW total.

#### 3.2 Combined Cycles

##### 3.2.1 Buck

Buck Combine Cycle (“CC”) is located in Rowan County, North Carolina, and first came into service in 2011. The plant consists of two (2) GE 7FA CTs, Unit 11 and Unit 12, and one GE D11 Steam Turbine (“ST”), Unit 10. All three units have a combined rating of 668 MW and are natural gas-fired.

##### 3.2.2 Dan River

Dan River CC is located in Rockingham County, North Carolina, and came into service in 2012. The plant consists of two (2) GE 7FA CTs, Unit 8 and Unit 9, and a GE D11 ST, Unit 7. All three units have a combined rating of 662 MW and are natural gas-fired.

### **3.2.3 W.S. Lee Combined Cycle**

W.S. Lee CC is located in Anderson County, South Carolina, along the Saluda River. The plant consists of two (2) Siemens CTs, and one Siemens ST. All three units have a combined rating of approximately 847 MW and are natural gas-fired.

## **3.3 Natural Gas Fired Boiler**

### **3.3.1 W.S. Lee**

W.S. Lee is located in Anderson County, South Carolina, along the Saluda River. The coal-fired plant began commercial operation in 1951 with three GE ST units. Unit 1 and Unit 2 have since been retired and decommissioned, and Unit 3 was converted to natural gas in 2015. Unit 3 has a rating of 170 MW.

## **3.4 Coal Generation**

### **3.4.1 Allen**

Allen Steam Station is located in Gaston County, North Carolina, along the Catawba River. The Plant consists of five (5) GE coal-fired boiler units. Unit 1 and Unit 2 have a rating of 162 MW and began commercial operation in 1957. Unit 3 has a rating of 258 MW, and Unit 5 has a rating of 257 MW. Unit 3 and Unit 5 began commercial operation in 1959 and 1961, respectively. Unit 4 has a rating of 259 MW and began commercial operation in 1960. Cooling water is provided by the Catawba River.

### **3.4.2 Belews Creek**

Belews Creek Power Station is a coal-fired power plant located in Stokes County, North Carolina. The first turbine entered into service in 1974 and second was brought online in 1975. The Plant consists of two (2) coal-fired boiler units. Unit 1 and Unit 2 are Westinghouse STs that have a rating of 1,110 MW each, combining for 2,220 MW. Cooling water is provided by Belews Lake directly to the east of the site.

### **3.4.3 Cliffside**

Cliffside Station is a coal-fired power plant located in Cleveland, North Carolina, just north of the South Carolina border. Unit 1 through Unit 4 have been retired as of 2011. Unit 5 was brought online in 1972 and Unit 6 was brought online in 2012. Unit 5 consists of one (1) GE ST with a rating of 544 MW. Unit 6 consists of one (1) GE ST with a rating of 844 MW. Cooling water is provided by Broad River directly to the northeast of the site.

### **3.4.4 Marshall**

Marshall Station is a coal-fired power plant located in Catawba County, North Carolina. The Plant consists of four (4) coal-fired boiler units. Unit 1 and Unit 2 each consist of one (1) GE ST with a rating of 370 MW. Unit 3 and Unit 4 each consists of one (1) GE ST with a rating of 658 MW and 660 MW, respectively. The plant began operating in 1965 with Unit 1 and finished construction in 1970 with Unit 4. Cooling water is provided by Lake Norman of Catawba directly to the east of the site.

### **3.5 Solar**

#### **3.5.1 Gaston**

Gaston Solar Project is located in Northampton County, North Carolina, approximately 4 miles northwest of Bessemer City, North Carolina. Gaston has approximately 90,888 panels and a combined rating of approximately 28.6 MW-AC. The project came online in December of 2020.

#### **3.5.2 Maiden Creek**

Maiden Creek Solar Facility is located in Catawba, North Carolina, approximately 3 miles northeast of Maiden, North Carolina. Maiden Creek has approximately 256,704 panels and a combined rating of 69.3 MW-AC. The project came online in December of 2022.

#### **3.5.3 Mocksville**

Mocksville Solar Farm is located in Davie County, North Carolina, about 60 miles northeast of Charlotte, North Carolina. Mocksville has an estimated 63,300 panels on site with a combined project rating of 15.4 MW-AC. It began commercial operation in December of 2016.

#### **3.5.4 Monroe**

Monroe Solar Facility is located in Union County, North Carolina, about 25 miles southeast of Charlotte, North Carolina. Monroe Solar Facility has an estimated 663,225 panels and a combined rating of 59.4 MW-AC. It began commercial operation in December of 2016.

#### **3.5.5 Woodleaf**

Woodleaf Solar Facility is located in Rowan County, North Carolina, approximately 9 miles northwest of Salisbury, North Carolina. Woodleaf has approximately 28,728 panels and a combined rating of 6 MW-AC. The project came online in December of 2018.

### **3.6 Pumped Hydro Storage**

#### **3.6.1 Bad Creek**

Bad Creek Pumped Storage Project is located in Oconee County, South Carolina, 8 miles north of Salem, South Carolina. Units 1 through 4 consist of Pumped Storage Generators (“PS”) that have a rating of 340 MW each, combining for a total plant capacity of 1,360 MW. Commercial operation began in 1991.

#### **3.6.2 Jocassee**

Jocassee Pumped Storage Station is located in Pickens County, South Carolina, on the Keowee River near Salem, South Carolina. Units 1 through 4 consist of PS that have rating of 195 MW each, combining for a total plant capacity of 780 MW. Commercial operation began in 1973.

### **3.7 Conventional Hydro**

#### **3.7.1 99 Islands**

The 99 Islands Hydroelectric (“Hydro”) Station is located in Blacksburg, South Carolina, on the Broad River. The plant powerhouse contains six (6) Hydraulic Turbines (“HT”) that have a combined rating of 9.6 MW. The plant began commercial operation in 1910.

### **3.7.2 Bear Creek**

Bear Creek Hydro Station is located in Tuckasegee, North Carolina, on the East Fork Tuckasegee River. The Bear Creek Hydro Station has one (1) HT that has a rating of 9.5 MW. The plant began commercial operation in 1954.

### **3.7.3 Bridgewater**

Bridgewater Hydro Station is located in Glen Alpine, North Carolina, and originally began operating in 1919. In 2011 the old powerhouse was decommissioned and new, more efficient, turbine generators went into service. These three (3) newer HT Units have a combined rating of 31.5 MW and provide constant water flow into the Catawba River.

### **3.7.4 Cedar Cliff**

Cedar Cliff Hydro Station is located in Tuckasegee, North Carolina, downstream from Bear Creek Hydro Station on the East Fork Tuckasegee River. The site consists of one (1) HT that has a rating of 6.8 MW. The station began commercial operation in 1952.

### **3.7.5 Cedar Creek**

Cedar Creek Hydro Station is located in Rocky Creek, South Carolina, on the Catawba River. Cedar Creek has three (3) HT units that have a combined rating of 45 MW. The site began commercial operation in 1926.

### **3.7.6 Cowans Ford**

Cowans Ford Hydro Station is located in Mecklenburg County, North Carolina, on Lake Norman. The site began operation in 1963 with three (3) HTs, and with a fourth turbine being added in 1967. This is the largest hydro station in Duke's fleet with a combined rating of 324 MW. Cowans Ford Dam created Lake Norman which is the largest man-made body of freshwater in the state.

### **3.7.7 Dearborn**

The Dearborn Hydro Station is located in Great Falls, South Carolina on the Catawba River. The powerhouse contains three (3) HT units that have a combined rating of 42 MW. The plant began commercial operation in 1923.

### **3.7.8 Fishing Creek**

Fishing Creek Hydro station is located in Chester County, South Carolina, approximately half-way between Charlotte, North Carolina and Columbia, South Carolina. There are five (5) HTs at Fishing Creek that have a combined rating of 50 MW. Fishing Creek began commercial operation over 100 years ago in 1916.

### **3.7.9 Gaston Shoals**

The Gaston shoals Plant is located in Blacksburg, South Carolina, on the Broad River. The powerhouse contains four (4) HTs that have a combined rating of 6 MW. The plant began commercial operation in 1908.

### **3.7.10 Great Falls**

The Great Falls Hydro Station is located in Great Falls, South Carolina, on the Convergence of Rocky Creek and the Catawba River. The powerhouse contains eight (8) HTs that have a combined rating of 12 MW. The plant began commercial operation in 1907.

### **3.7.11 Keowee**

The Keowee Plant is located in Pickens County, South Carolina, on Lake Keowee. The powerhouse contains two (2) HTs that have a combined rating of 152 MW. The plant began commercial operation in 1971.

### **3.7.12 Lookout Shoals**

Lookout Shoals Hydro Station is located in Iredell County, North Carolina, on Lookout Shoals Lake. The powerhouse contains three (3) HTs that have a combined rating of 27 MW. The Hydro Station began commercial operation over 100 years ago in 1915.

### **3.7.13 Mountain Island**

Mountain Island Hydro Station is located in Gaston County, North Carolina, on Mountain Island Lake. The powerhouse consists of four (4) HT units that have a combined rating of 62 MW. Mountain Island began commercial operation in 1923.

### **3.7.14 Nantahala**

The Nantahala Plant is located in Topton, North Carolina, on the Nantahala Lake. The powerhouse contains one (1) HT unit that has a rating of 50 MW. The plant began commercial operation in 1942.

### **3.7.15 Oxford**

Oxford Hydro Station is located in Hickory, North Carolina, on the south bank of the Catawba River. Oxford has two (2) HT units that have a combined rating of 40 MW. Oxford began commercial operation in 1928.

### **3.7.16 Queens Creek**

Queens Creek Hydro Station is located in Topton, North Carolina, on Queens Creek, a branch off the Nantahala River. The site has one (1) HT that has a rating of 1.4 MW. Queens Creek plant began commercial operation in 1948.

### **3.7.17 Rhodhiss**

Rhodhiss Hydro Station is located in Rhodhiss, North Carolina, and formed Lake Rhodhiss when it was completed in 1925. The site consists of three (3) HT units that have a combined rating of 33.4 MW. Commercial operation began in 1925.

### **3.7.18 Rocky Creek**

Rocky Creek Hydro Station is located in both Fairfield and Lancaster Counties, South Carolina, on the Catawba River. The powerhouse contains eight (8) HT units that have a combined rating of 28 MW. The plant began commercial operation in 1908.

### **3.7.19 Tennessee Creek**

Tennessee Creek Hydro Station is located in Tuckasegee, North Carolina, on the East Fork Tuckasegee River. The powerhouse contains one (1) HT that has a rating of 9.8 MW. The Tennessee. This plant is 7 miles to the east of the Tuckasegee hydro station. Commercial operations began in 1955.

### **3.7.20 Thorpe**

Thorpe Hydro Station is located in Tuckasegee, North Carolina, on the West Fork Tuckasegee River. The powerhouse contains one (1) HT that has a rating of 22 MW. The plant began commercial operation in 1941.

### **3.7.21 Tuckasegee**

Tuckasegee Hydro Station is located in Tuckasegee, North Carolina, on the West Fork Tuckasegee River. The powerhouse contains one (1) HT unit that has a rating of 2.5 MW. Commercial operations began in 1950.

### **3.7.22 Wateree**

The Wateree Plant is located in the Fairfield and Kershaw Counties of South Carolina. The powerhouse contains five (5) hydraulic turbines that have a combined rating of 85 MW. The plant began commercial operation in 1919.

### **3.7.23 Wylie**

The Lake Wylie Hydro Station is located in York County, South Carolina, on the Catawba River. The powerhouse contains four (4) hydraulic turbines that have a combined rating of 72 MW. The plant began commercial operation in 1925.

## 4.0 DECOMMISSIONING COSTS

1898 & Co. has prepared decommissioning cost estimates for the Plants. When DEC determines that each site should be retired, the above grade equipment and steel structures are assumed to have scrap value to a scrap contractor which will offset a portion of the site decommissioning costs. However, DEC will incur costs of dismantling the Plants and restoration of the sites to the extent that those costs exceed the scrap value of equipment and bulk steel.

The decommissioning costs for each site include the cost to return each site to an industrial condition, suitable for reuse for development of an industrial facility. Included are the costs to dismantle all the assets at the sites, including power generating equipment and BOP facilities, as well as the costs to perform environmental site restoration activities.

For purposes of this study, 1898 & Co. assumed that each site will be dismantled as a single project, allowing the most cost-effective demolition methods to be utilized. A summary of several of the means and methods that could be employed is summarized in the following paragraphs; however, means and methods will not be dictated to the contractor by 1898 & Co. It will be the contractor's responsibility to determine means and methods that result in safely dismantling the Plants at the lowest possible cost.

Asbestos remediation, as required, would take place prior to commencement of any other demolition activities. Abatement would need to be performed in compliance with all state and federal regulations, including, but not limited to, requirements for sealing off work areas and maintaining negative pressure throughout the removal process. Final clearances and approvals would need to be achieved prior to performing further demolition activities.

High grade assets would then be removed from the site, to the extent possible. This would include items such as transformers, transformer coils, circuit breakers, electrical wire, condenser plates and tubes, and heater tubes. High grade assets include precious alloys such as copper, aluminum-brass tubes, stainless steel tubes, and other high value metals occurring in plant systems. High grade asset removal would occur up-front in the schedule, to reduce the potential for theft, to increase cash flow, and for separation of recyclable materials to increase scrap recovery. Methods of removal vary with the location and nature of the asset. Small transformers, small equipment, and wire would likely be removed and shipped as-is for processing at a scrap yard. Large transformers, combustion turbines, steam turbine generators, and condensers would likely require some on-site disassembly prior to being shipped to a scrap yard.

Construction and Demolition ("C&D") waste includes items such as non-asbestos insulation, roofing, wood, drywall, plastics, and other non-metallic materials. C&D waste would typically be segregated from scrap and concrete to avoid cross-contaminating of waste streams or recycle streams. C&D demolition crews could remove these materials with equipment such as excavators equipped with material handling attachments, skid steers, etc. This material would be consolidated and loaded into bulk containers for disposal.

In general, boilers and Heat Recovery Steam Generators ("HRSG") could be felled and cut into manageable sized pieces on the ground. First the structures around the boilers would need to

be removed using excavators equipped with shears and grapples. Stairs, grating, elevators, and other high structures would be removed using an “ultra-high reach” excavator, equipped with shears. Following removal of these structures, the boilers or HRSGs would be felled, using explosive blasts. The boilers would then be dismantled using equipment such as excavators equipped with shears and grapples, and the scrap metal loaded onto trailers for recycling.

After the surrounding structures and ductwork have been removed, the stacks would be imploded, using controlled blasts. Following implosion, the stack liners and concrete would be reduced in size to allow for handling and removal.

BOP structures and foundations would likely be demolished using excavators equipped with hydraulic shears, hydraulic grapples, and impact breakers, along with workers utilizing open flame cutting torches. Steel components would be separated, reduced in size, and loaded onto trailers for recycling. Concrete would be broken into manageable sized pieces and stockpiled for crushing on site. Concrete pieces would ultimately be loaded in a hopper and fed through a crusher to be sized for on-site disposal.

#### **4.1 General Assumptions**

The following assumptions are made as the basis of all of the cost estimates:

1. Pricing for all cost estimates is in 2022 dollars.
2. All work will take place in a safe and cost-efficient method.
3. Labor costs are based on non-Union labor rates for a 40-hour workweek.
4. The estimates are inclusive of all costs necessary to properly dismantle and decommission all sites to a marketable or usable condition. For purposes of this Study and the included cost estimates, the sites will be restored to a condition suitable for industrial use. Such sites that are restored for reuse in industrial settings are referred to as brownfield sites.
5. Abatement of asbestos will precede any other work. After final air quality clearances have been reached, demolition can proceed.
6. All facilities will be decommissioned to zero generating output. Existing utilities will remain in place for use by the contractor for the duration of the demolition activities.
7. It is assumed that all of the power stations will be dismantled after all units at a single site are taken out of service, allowing dismantlement of entire sites at once.
8. Soil testing and any other on-site testing has not been conducted for this study.
9. Transmission switchyards and substations outside the boundaries of the plant are not part of the demolition scope.
10. The costs for relocation of transmission lines, or other transmission assets, are specifically excluded from the decommissioning cost estimates.
11. Any costs necessary to support on-going operations of adjacent or newly proposed units will be allocated to the operating costs of the units not being decommissioned.
12. All demolition and abatement activities, including removal of asbestos, will be done in accordance with any and all applicable Federal, State and Local laws, rules and regulations.
13. Any residual oil or sludge in tanks and pipes will be cleaned by DEC prior to demolition.

14. It is assumed that sufficient area to receive, assemble, and temporarily store equipment and materials is available.
15. Step-up transformers, auxiliary transformers, and spare transformers are included for demolition and scrap in all estimates.
16. Demolition will include the removal of all structures, equipment, tanks, conveyer systems, ancillary buildings, and any other associated equipment to two (2) feet below grade, unless otherwise specified herein.
17. To the extent possible, concrete will be crushed and disposed of on-site. During crushing of the concrete, a large magnet is utilized to remove all rebar. All other non-hazardous material with no scrap value will be disposed of off-site at the nearest landfill.
18. All above grade plant structures and materials such as fire walls, masonry, doors, windows, building finishes, plumbing, HVAC ductwork, lighting fixtures, and cable trays, will be disposed of off-site at the nearest landfill.
19. Foundations and ground floor slabs will be removed to two (2) feet below grade. The surface will be graded for drainage using on-site soil and seeding.
20. All pipe supports and pipe racks will be demolished and scrapped.
21. Three feet of soil beneath the fuel oil tanks is to be removed and replaced with clean fill.
22. Hazardous material abatement is included for all sites as necessary, including asbestos, mercury, and polychlorinated biphenyls (“PCB”). Lead paint coated materials will be handled by certified personnel compliant with OSHA Standards as necessary, but will not be removed prior to demolition. Scrap steel can be taken to scrap brokers with lead paint still intact, and it will not impact the scrap value.
23. All portable tanks will be removed from the site and scrapped, including any propane tanks, oil storage tanks, and waste oil tanks.
24. All chemicals will be consumed or disposed of by the Plant prior to shut down, including process chemicals in equipment, stored chemicals, and laboratory chemicals.
25. Any observable surface spill will be cleaned.
26. All trash, debris, and miscellaneous waste will be removed and disposed of properly.
27. Underground piping will be capped and abandoned in place. Circulating water tunnels will be filled with flowable fill.
28. No environmental costs have been included to address cleanup of contaminated soils, hazardous materials, or other conditions present on-site having a negative environmental impact, other than those specifically listed in these assumptions. No allowances are included for unforeseen environmental remediation activities.
29. Handling and disposal of hazardous material will be performed in compliance with the approved methods of DEC's Environmental Services Department.
30. Ash ponds and landfills are excluded from the scope of this Study.
31. Storm water ponds will be drained and the area graded to allow for natural drainage.
32. Site areas will be graded to achieve suitable site drainage to natural drainage patterns, but grading will be minimized to the extent possible.
33. Existing basements will be used to bury non-hazardous debris. Concrete in trenches and basements will be perforated to create drainage. Non-hazardous debris, such as concrete will be crushed and used as clean fill on-site once the capacity of all existing basements has been exceeded. All inert debris will be disposed of on-site. Costs for offsite disposal are included for materials not classified as inert debris.

34. Valuation and sale of land and all replacement generation costs are excluded from this scope.
35. The scope of the costs included in the Study is limited to the decommissioning activities that will occur at the end of useful life of the facilities. Additional on-going costs may be required. These costs are excluded from the cost estimates provided in this Study.
36. Rolling stock, including rail cars, dozers, plant vehicles, etc. is assumed to be removed by DEC prior to decommissioning.
37. DEC provided plant inventory values for each site for inclusion as a cost in each estimate. It is assumed that 10 percent of the inventory value will be included as a scrap credit. For the combustion turbine facilities, it is assumed that 25 percent of the inventory value is accounted for as a scrap credit. This inventory cost is not included in the calculation for contingency and indirect costs.
38. Market conditions may result in cost variations at the time of contract execution.
39. A 20 percent contingency was included on the direct costs in the estimates prepared as part of this Study to cover unknowns.
40. Indirect costs are included in the cost estimate to cover owner expenses such as management trailers, utilities, etc. which may impact the cost of decommissioning each site. An indirect cost of 11 percent was included in the estimates to cover such costs as directed by DEC.
41. Major equipment, structural steel, CTs, generators, inlet filters, exhaust stacks, transformers, electrical equipment, cabling, wiring, pump skids, above ground piping, and equipment enclosures for the above equipment will be sold for scrap and removed from the Plant site by the demolition contractor. All other demolished materials are considered debris.
42. The scrap value of the equipment is based on the equipment being at the end of its useful life at the time of demolition; therefore, the equipment will not have a value on the grey market for reinstallation. Equipment will have value as scrap only at the time of site demolition.
43. The following scrap values were used in the decommissioning cost estimates. The scrap values are based upon the 12-month average of American Metal Market prices for May 2021 to April 2022 (i.e., one calendar year). These values include the cost to haul the scrap via truck and/or rail to the scrap market indicated below.

**Table 4-1: Scrap Pricing**

Plant	Scrap Market Location	Steel Scrap Value (\$/net ton)	Copper Scrap Value (\$/pound)	Aluminum Scrap Value (\$/pound)	Brass Scrap Value (\$/pound)
99 Islands	North Carolina	(\$385.59)	(\$3.36)	(\$0.48)	(\$2.52)
Allen	North Carolina	(\$398.19)	(\$3.36)	(\$0.49)	(\$2.53)
Bad Creek	South Carolina	(\$371.37)	(\$3.35)	(\$0.47)	(\$2.51)
Bear Creek	South Carolina	(\$360.87)	(\$3.34)	(\$0.46)	(\$2.51)
Belews Creek	North Carolina	(\$383.32)	(\$3.35)	(\$0.48)	(\$2.52)
Bridgewater	South Carolina	(\$378.30)	(\$3.35)	(\$0.47)	(\$2.52)

Plant	Scrap Market Location	Steel Scrap Value (\$/net ton)	Copper Scrap Value (\$/pound)	Aluminum Scrap Value (\$/pound)	Brass Scrap Value (\$/pound)
Buck	North Carolina	(\$383.84)	(\$3.36)	(\$0.48)	(\$2.52)
Cedar Cliff	South Carolina	(\$361.92)	(\$3.34)	(\$0.47)	(\$2.51)
Cedar Creek	South Carolina	(\$387.76)	(\$3.36)	(\$0.48)	(\$2.52)
Clemson	South Carolina	(\$382.57)	(\$3.35)	(\$0.48)	(\$2.52)
Cliffside	North Carolina	(\$380.34)	(\$3.35)	(\$0.48)	(\$2.52)
Cowans Ford	North Carolina	(\$393.64)	(\$3.36)	(\$0.48)	(\$2.52)
Dan River	South Carolina	(\$380.00)	(\$3.35)	(\$0.47)	(\$2.52)
Dearborn	South Carolina	(\$387.76)	(\$3.36)	(\$0.48)	(\$2.52)
Fishing Creek	South Carolina	(\$387.76)	(\$3.36)	(\$0.48)	(\$2.52)
Gaston	North Carolina	(\$389.09)	(\$3.36)	(\$0.48)	(\$2.52)
Gaston Shoals	North Carolina	(\$385.59)	(\$3.36)	(\$0.48)	(\$2.52)
Great Falls	South Carolina	(\$387.76)	(\$3.36)	(\$0.48)	(\$2.52)
Jocassee	South Carolina	(\$374.87)	(\$3.35)	(\$0.47)	(\$2.51)
Keowee	South Carolina	(\$379.42)	(\$3.35)	(\$0.47)	(\$2.52)
Lark	North Carolina	(\$396.79)	(\$3.36)	(\$0.48)	(\$2.52)
Lincoln	North Carolina	(\$395.04)	(\$3.36)	(\$0.48)	(\$2.53)
Lookout Shoals	North Carolina	(\$386.64)	(\$3.36)	(\$0.48)	(\$2.52)
Maiden Creek	North Carolina	(\$384.68)	(\$3.36)	(\$0.48)	(\$2.52)
Marshall	North Carolina	(\$389.79)	(\$3.36)	(\$0.48)	(\$2.52)
Mill Creek	North Carolina	(\$385.59)	(\$3.36)	(\$0.48)	(\$2.52)
Mocksville	North Carolina	(\$382.43)	(\$3.35)	(\$0.48)	(\$2.52)
Monroe	North Carolina	(\$391.89)	(\$3.36)	(\$0.48)	(\$2.52)
Mountain Island	North Carolina	(\$396.79)	(\$3.36)	(\$0.48)	(\$2.53)
Nantahala	South Carolina	(\$352.12)	(\$3.34)	(\$0.46)	(\$2.50)
Oxford	North Carolina	(\$383.84)	(\$3.36)	(\$0.48)	(\$2.52)
Queens Creek	South Carolina	(\$352.82)	(\$3.34)	(\$0.46)	(\$2.50)
Rhodhiss	South Carolina	(\$378.30)	(\$3.35)	(\$0.47)	(\$2.52)
Rockingham	North Carolina	(\$378.91)	(\$3.35)	(\$0.48)	(\$2.52)
Rocky Creek	South Carolina	(\$387.76)	(\$3.36)	(\$0.48)	(\$2.52)
Tennessee Creek	South Carolina	(\$360.87)	(\$3.34)	(\$0.46)	(\$2.51)

Plant	Scrap Market Location	Steel Scrap Value (\$/net ton)	Copper Scrap Value (\$/pound)	Aluminum Scrap Value (\$/pound)	Brass Scrap Value (\$/pound)
Thorpe	South Carolina	(\$359.12)	(\$3.34)	(\$0.46)	(\$2.51)
Tuckasegee	South Carolina	(\$362.62)	(\$3.34)	(\$0.47)	(\$2.51)
Wateree	South Carolina	(\$393.01)	(\$3.36)	(\$0.48)	(\$2.52)
Woodleaf	North Carolina	(\$383.84)	(\$3.36)	(\$0.48)	(\$2.52)
WS Lee	North Carolina	(\$376.26)	(\$3.35)	(\$0.47)	(\$2.52)
Wylie	North Carolina	(\$396.09)	(\$3.36)	(\$0.48)	(\$2.53)

Table 4-2:Scrap Pricing

Plant	Scrap Market Location	Stainless Steel Scrap Value (\$/net ton)
Belews Creek	Illinois	(\$1,865.69)
Buck	Ohio	(\$1,869.33)
Cliffside	Illinois	(\$1,863.96)
Dan River	Illinois	(\$1,865.69)
Marshall	Illinois	(\$1,861.72)

## 4.2 Site Specific Assumptions

The following assumptions were made specific to each site, in addition to the general assumptions listed above.

### 4.2.1 Hydroelectric Sites

The following assumptions were made as the basis of all hydroelectric sites.

1. The dams are not included for removal in this Study, and will remain in place for flow control purposes.
2. At Plants where the powerhouse is a part of the dam, or structurally connected to the dam, the powerhouse will remain in place to support flow control operations. In these cases, although the powerhouse will remain, the cost of asbestos abatement in the powerhouse is included in the decommissioning cost estimates.
3. The asbestos quantities for the hydro facilities were not explicitly provided and therefore were estimated based off of known asbestos quantities at other similar hydro plants.
4. When the dam and the powerhouse are separated by a river bypass (piping, or penstock between dam and powerhouse) the above grade piping will be removed. Below grade piping will be abandon in place with the ends being capped with concrete. The powerhouse is assumed to be able to be demolished without effecting the dam.
5. Generators, transformers, and other power generation equipment will be removed.

6. Specific demolition crews are based on task, labor and equipment rates, which vary depending on the estimated time of completion.
7. Conventional hydro sites including Bear Creek, Cedar Cliff, and Tennessee Creek have dry-type GSU transformers. As such, there are no associated transformer oil disposal costs required for these sites.

#### **4.2.2 Allen**

1. The boilers, steam piping, air ducts, and miscellaneous gaskets, floor tile, switch gear and various other structures are assumed to include asbestos containing materials. The cost for handling and disposing of this asbestos containing material is included in the cost estimates.
2. Main flue gas desulfurization ("FGD") equipment costs were split between the units based on the total output of each unit.
3. Holding ponds have High-density polyethylene ("HDPE") liners.

#### **4.2.3 Bad Creek**

1. The pumped storage reservoir will be drained completely and the power tunnel from reservoir will be sealed. The tailraces will also be sealed but remain in place.
2. The below ground tunnels will not be filled with flowable fill. Instead, the already in place gates and fences will remain in place for security.

#### **4.2.4 Belews Creek**

1. Portions of the FGD and selective catalytic reduction ("SCR") equipment that are used by both units were allocated to each unit equally (ammonia tanks, FGD control building, etc.)
2. The SCR is stacked on top of precipitator therefore the concrete foundation below is split between the two.
3. Stacks have been removed and not included in the study.
4. Holding ponds have HDPE liners.

#### **4.2.5 Buck**

1. Buck is assumed to be asbestos free due to vintage of the plant.

#### **4.2.6 Clemson**

1. Clemson is assumed to be asbestos and PCB free due to vintage of the plant.
2. The steam turbine and building are owned by Clemson and not included in this study.

#### **4.2.7 Cliffside**

1. The Unit 5 boilers, steam piping, air ducts, and miscellaneous gaskets, floor tile, switch gear and various other structures are assumed to include asbestos containing materials. The cost for handling and disposing of this asbestos containing material is included in the cost estimates.
2. The transformers on-site are assumed to not have PCB containing oil.
3. Low head dam removal included in the scope.

#### **4.2.8 Dan River**

1. Dan River is assumed to be asbestos and PCB free due to vintage of the plant and discussions with plant staff.

2. Low head dam removal is included in the scope.

#### **4.2.9 Gaston**

1. All roads on site are gravel.

#### **4.2.10 Lincoln**

1. All 16 units are identical.
2. There are a total of 8 identical GSU transformers, one per every two units.
3. Each unit has its own aux transformer.
4. Unit 17 is not included in the study.

#### **4.2.11 Maiden Creek**

1. All roads on site are gravel.
2. It is assumed that there is no photovoltaic combining switchgear on site.

#### **4.2.12 Marshall**

1. Unit 1 and Unit 2 were each allocated one-sixth of the cost of the FGD while Units 3 and 4 were each allocated one-third of the cost.
2. The stacks for Unit 3 and Unit 4 have been removed and are excluded from this scope.
3. Holding ponds have HDPE liners.

#### **4.2.13 Mill Creek**

1. Mill Creek is assumed to be asbestos free due to vintage of the plant.
2. All units are assumed to be identical.
3. Holding ponds on south of the plant have HDPE liners.

#### **4.2.14 Mocksville**

1. All roads on site are gravel.
2. It is assumed that there is no photovoltaic combining switchgear on site.

#### **4.2.15 Monroe**

1. All roads on site are gravel.
2. It is assumed that there is no photovoltaic combining switchgear on site.

#### **4.2.16 Rockingham**

1. Rockingham is assumed to be asbestos free due to vintage of the plant.

#### **4.2.17 Woodleaf**

1. All roads on site are gravel.

#### **4.2.18 WS Lee**

1. The cost estimate for decommissioning W.S. Lee natural gas boiler unit is separate from the cost estimate for decommissioning W.S. Lee CT and CC units.
2. Fuel oil tanks are assumed to belong to W.S. Lee CT units and therefore are excluded from the W.S. Lee natural gas fired boiler estimate.
3. Only unit 3 is evaluating in this study.
4. Steam piping, air ducts, storage tanks and miscellaneous gaskets, coal handling, cooling towers, and various other structures are assumed to contain asbestos. The

cost for handling and disposing of this asbestos containing material is included in the cost estimates.

5. Since W. S. Lee has been converted to natural gas, all coal handling equipment has already been removed and was therefore, excluded from this Study.
6. Low head dam removal included in scope.

#### **4.2.19 WS Lee Combined Cycle**

1. The cost estimate for decommissioning W.S. Lee CC units is separate from the cost estimate for decommissioning W.S. Lee coal units and CT units.
2. WS Lee Combined Cycle is assumed to be asbestos and PCB free due to vintage of the plant and discussions with plant staff.

#### **4.2.20 WS Lee Simple Cycle**

1. The cost estimate for decommissioning W.S. Lee CT units is separate from the cost estimate for decommissioning W.S. Lee coal units and CC units.
2. The two fuel oil tanks to the northwest of the coal units are included in the cost estimate for the decommissioning of the CT units.

## 5.0 RESULTS

1898 & Co. has prepared cost estimates in 2022 dollars for the decommissioning of the Plants. These costs are summarized in the following table. When DEC determines that the Plants should be retired, the above grade equipment and steel structures are assumed to have sufficient scrap value to a scrap contractor to offset a portion of the decommissioning costs. DEC will incur costs in the demolition and restoration of the sites less the salvage value of equipment and bulk recycled metals. Additionally, DEC's on-site inventory was taken into consideration for the demolition costs. For the combustion turbine facilities, a salvage value of 25 percent was assumed. For the other Plants, 10 percent of the inventory was assumed to be salvageable. The combustion turbine facilities were assumed to have a higher inventory salvage value because spare parts for combustion turbines are more marketable and can be more easily resold to other owners/operators at a higher premium than just the scrap price of the material.

**Table 5-1: Decommissioning Cost Summary (2022\$)**

Plant	Gross Decom Cost	Inventory Cost	Salvage Credits	Inventory Credits	Net Project Cost
99 Islands	\$ 3,444,000	\$ 48,000	\$ (758,000)	\$ (5,000)	\$ 2,729,000
Allen	\$ 66,380,000	\$ 9,356,000	\$ (33,520,000)	\$ (936,000)	\$ 41,280,000
Bad Creek	\$ 8,376,000	\$ 5,719,000	\$ (11,072,000)	\$ (572,000)	\$ 2,451,000
Bear Creek	\$ 993,000	-	\$ (283,000)	-	\$ 710,000
Belews Creek	\$ 81,445,000	\$ 33,156,000	\$ (35,814,000)	\$ (3,316,000)	\$ 75,471,000
Bridgewater	\$ 2,540,000	\$ 92,000	\$ (799,000)	\$ (9,000)	\$ 1,824,000
Buck	\$ 13,340,000	\$ 8,219,000	\$ (8,373,000)	\$ (821,900)	\$ 12,364,100
Cedar Cliff	\$ 1,328,000	-	\$ (308,000)	-	\$ 1,020,000
Cedar Creek	\$ 2,191,000	\$ 107,000	\$ (945,000)	\$ (11,000)	\$ 1,342,000
Clemson	\$ 719,000	\$ 357,000	\$ (428,000)	\$ (35,700)	\$ 612,300
Cliffside	\$ 75,820,000	\$ 28,973,000	\$ (32,796,000)	\$ (2,897,000)	\$ 69,100,000
Cowans Ford	\$ 3,816,000	\$ 139,000	\$ (4,196,000)	\$ (14,000)	\$ (255,000)
Dan River	\$ 13,914,000	\$ 9,857,000	\$ (7,355,000)	\$ (986,000)	\$ 15,430,000
Dearborn	\$ 2,152,000	\$ 25,000	\$ (1,135,000)	\$ (3,000)	\$ 1,039,000
Central Storeroom	-	\$ 230,080	\$ (23,008)	-	\$ 207,072
Fishing Creek	\$ 3,174,000	\$ 100,000	\$ (1,461,000)	\$ (10,000)	\$ 1,803,000
Gaston	\$ 4,357,600	-	\$ (2,110,400)	-	\$ 2,247,200
Gaston Shoals	\$ 2,418,000	-	\$ (294,000)	-	\$ 2,124,000
Great Falls	\$ 4,967,000	\$ 26,000	\$ (714,000)	\$ (3,000)	\$ 4,276,000
Hydro Repair	-	\$ 43,500	\$ (4,350)	-	\$ 39,150

Plant	Gross Decom Cost	Inventory Cost	Salvage Credits	Inventory Credits	Net Project Cost
Jocassee	\$ 4,632,000	-	\$ (7,224,000)	-	\$ (2,592,000)
Keowee	\$ 3,404,000	-	\$ (2,871,000)	-	\$ 533,000
Lark	\$ 2,087,000	\$ 62,259,000	\$ (198,000)	\$ (6,226,000)	\$ 57,922,000
Lincoln	\$ 16,874,000	\$ 1,761,000	\$ (16,527,000)	\$ (440,000)	\$ 1,668,000
Lookout Shoals	\$ 2,019,000	\$ 127,000	\$ (773,000)	\$ (13,000)	\$ 1,360,000
Maiden Creek	\$ 15,721,600	\$ 63,700	\$ (8,677,000)	\$ (6,400)	\$ 7,101,900
Marshall	\$ 59,297,000	\$ 20,743,000	\$ (38,051,000)	\$ (2,074,000)	\$ 39,915,000
Mill Creek	\$ 5,742,000	\$ 766,000	\$ (6,206,000)	\$ (191,000)	\$ 111,000
Mocksville	\$ 2,963,800	-	\$ (1,099,900)	-	\$ 1,863,900
Monroe	\$ 12,441,400	\$ 45,100	\$ (4,512,500)	\$ (4,500)	\$ 7,969,500
Mountain Island	\$ 2,986,000	\$ 87,000	\$ (1,310,000)	\$ (9,000)	\$ 1,754,000
Nantahala	\$ 1,857,000	\$ 51,000	\$ (838,000)	\$ (5,000)	\$ 1,065,000
Oxford	\$ 1,737,000	\$ 96,000	\$ (898,000)	\$ (10,000)	\$ 925,000
Queens Creek	\$ 1,132,000	-	\$ (197,000)	-	\$ 935,000
Rhodhiss	\$ 2,150,000	\$ 111,000	\$ (935,000)	\$ (11,000)	\$ 1,315,000
Rockingham	\$ 5,896,000	\$ 1,689,000	\$ (6,347,000)	\$ (422,000)	\$ 816,000
Rocky Creek	\$ 4,435,000	\$ 9,000	\$ (1,003,000)	\$ (1,000)	\$ 3,440,000
Tennessee Creek	\$ 2,081,000	-	\$ (386,000)	-	\$ 1,695,000
Thorpe	\$ 3,569,000	-	\$ (527,000)	-	\$ 3,042,000
Tuckasegee	\$ 1,871,000	-	\$ (154,000)	-	\$ 1,717,000
Wateree	\$ 3,419,000	\$ 302,000	\$ (1,690,000)	\$ (30,000)	\$ 2,001,000
Woodleaf	\$ 1,289,100	\$ 9,700	\$ (407,500)	\$ (1,000)	\$ 890,300
WS Lee CT	\$ 1,848,000	-	\$ (1,062,000)	-	\$ 786,000
WS Lee Boiler	\$ 13,753,000	\$ 1,652,000	\$ (4,614,000)	\$ (165,000)	\$ 10,626,000
WS Lee CC	\$ 13,736,000	\$ 4,411,000	\$ (8,428,000)	\$ (441,000)	\$ 9,278,000
Wylie	\$ 3,024,000	\$ 113,000	\$ (1,405,000)	\$ (11,000)	\$ 1,721,000

The total project costs presented above include the costs to return the sites to an industrial condition suitable for reuse for development as an industrial facility. Included are the costs to dismantle all power generating equipment and balance of plant facilities and, where applicable, to perform environmental site restoration activities. Further details including estimates for the major cost categories of each plant estimate are provided in Appendix A.

**APPENDIX A - COST ESTIMATE SUMMARIES**

Duke Energy Carolinas, LLC

**Table A-1**  
**99 Islands Hydro Station**  
**Decommissioning Cost Summary**

	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
<b>99 Islands Hydro Station</b>						
<i>Hydro Station</i>						
Hydroelectric Equipment & Facilities	\$ 1,255,000	\$ 1,076,000	\$ -	\$ -	\$ 2,331,000	\$ -
BOP Buildings	\$ 8,000	\$ 9,000	\$ -	\$ -	\$ 17,000	\$ -
Roads	\$ 2,000	\$ 2,000	\$ -	\$ -	\$ 4,000	\$ -
Debris	\$ -	\$ -	\$ 5,000	\$ -	\$ 5,000	\$ -
Grading & Seeding	\$ -	\$ -	\$ -	\$ 36,000	\$ 36,000	\$ -
Scrap	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (758,000)
<b>Subtotal</b>	<b>\$ 1,265,000</b>	<b>\$ 1,087,000</b>	<b>\$ 6,000</b>	<b>\$ 36,000</b>	<b>\$ 2,394,000</b>	<b>\$ (758,000)</b>
<i>Facilities Environmental</i>						
Asbestos Removal	\$ -	\$ -	\$ -	\$ 223,000	\$ 223,000	\$ -
Universal Waste Disposal	\$ -	\$ -	\$ -	\$ 14,000	\$ 14,000	\$ -
Transformer Oil Disposal	\$ -	\$ -	\$ -	\$ 13,000	\$ 13,000	\$ -
Transformer Pad and Soil Removal	\$ -	\$ -	\$ -	\$ 5,000	\$ 5,000	\$ -
<b>Subtotal</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 255,000</b>	<b>\$ 255,000</b>	<b>\$ -</b>
<b>99 Islands Hydro Station Subtotal</b>	<b>\$ 1,265,000</b>	<b>\$ 1,087,000</b>	<b>\$ 6,000</b>	<b>\$ 291,000</b>	<b>\$ 2,649,000</b>	<b>\$ (758,000)</b>
<b>TOTAL DECOM COST (CREDIT)</b>					<b>\$ 2,649,000</b>	<b>\$ (758,000)</b>
<b>PROJECT INDIRECTS (10%)</b>					<b>\$ 265,000</b>	
<b>CONTINGENCY (20%)</b>					<b>\$ 530,000</b>	
<b>INVENTORY ADJUSTMENT</b>					<b>\$ 48,000</b>	<b>\$ (5,000)</b>
<b>TOTAL PROJECT COST (CREDIT)</b>					<b>\$ 3,492,000</b>	<b>\$ (763,000)</b>
<b>TOTAL NET PROJECT COST (CREDIT)</b>					<b>\$ 2,729,000</b>	

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**Table A-2**  
**Allen Generating Station**  
**Decommissioning Cost Summary**

Allen Generating Station	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
<b>Unit 1</b>						
Asbestos Removal						
Boiler	\$ 1,267,000	\$ 1,233,000	-	\$ 1,116,000	\$ 1,116,000	\$ -
Steam Turbine & Building	\$ 505,000	\$ 491,000	-	-	\$ 2,500,000	\$ -
Precipitators	\$ 328,000	\$ 319,000	-	-	\$ 996,000	\$ -
Scrubber / FGD	\$ 241,000	\$ 235,000	-	-	\$ 647,000	\$ -
Stacks	\$ 110,000	\$ 107,000	-	-	\$ 476,000	\$ -
GSU & Foundation	\$ 53,000	\$ 51,000	-	-	\$ 217,000	\$ -
On-site Concrete Crushing & Disposal	-	-	\$ 60,000	-	\$ 104,000	\$ -
Debris	-	-	\$ 80,000	-	\$ 60,000	\$ -
Scrap	-	-	-	-	\$ 80,000	\$ -
<b>Subtotal</b>	<b>\$ 2,504,000</b>	<b>\$ 2,436,000</b>	<b>\$ 140,000</b>	<b>\$ 1,116,000</b>	<b>\$ 6,196,000</b>	<b>\$ (5,308,000)</b>
<b>Unit 2</b>						
Asbestos Removal						
Boiler	\$ 1,375,000	\$ 1,338,000	-	\$ 1,116,000	\$ 1,116,000	\$ -
Steam Turbine & Building	\$ 505,000	\$ 491,000	-	-	\$ 2,713,000	\$ -
Precipitator	\$ 328,000	\$ 319,000	-	-	\$ 996,000	\$ -
Scrubber / FGD	\$ 241,000	\$ 235,000	-	-	\$ 647,000	\$ -
Stacks	\$ 110,000	\$ 107,000	-	-	\$ 476,000	\$ -
GSU & Foundation	\$ 41,000	\$ 40,000	-	-	\$ 217,000	\$ -
On-site Concrete Crushing & Disposal	-	-	\$ 60,000	-	\$ 81,000	\$ -
Debris	-	-	\$ 83,000	-	\$ 60,000	\$ -
Scrap	-	-	-	-	\$ 83,000	\$ -
<b>Subtotal</b>	<b>\$ 2,600,000</b>	<b>\$ 2,530,000</b>	<b>\$ 143,000</b>	<b>\$ 1,116,000</b>	<b>\$ 6,389,000</b>	<b>\$ (5,486,000)</b>
<b>Unit 3</b>						
Asbestos Removal						
Boiler	\$ 1,770,000	\$ 1,723,000	-	\$ 1,860,000	\$ 1,860,000	\$ -
Steam Turbine & Building	\$ 632,000	\$ 615,000	-	-	\$ 3,493,000	\$ -
Precipitator	\$ 459,000	\$ 447,000	-	-	\$ 1,247,000	\$ -
Scrubber / FGD	\$ 322,000	\$ 313,000	-	-	\$ 906,000	\$ -
Stacks	\$ 110,000	\$ 107,000	-	-	\$ 635,000	\$ -
GSU & Foundation	\$ 48,000	\$ 47,000	-	-	\$ 217,000	\$ -
On-site Concrete Crushing & Disposal	-	-	\$ 72,000	-	\$ 95,000	\$ -
Debris	-	-	\$ 90,000	-	\$ 72,000	\$ -
Scrap	-	-	-	-	\$ 90,000	\$ -
<b>Subtotal</b>	<b>\$ 3,341,000</b>	<b>\$ 3,252,000</b>	<b>\$ 162,000</b>	<b>\$ 1,860,000</b>	<b>\$ 8,615,000</b>	<b>\$ (7,318,000)</b>
<b>Unit 4</b>						
Asbestos Removal						
Boiler	\$ 1,774,000	\$ 1,727,000	-	\$ 1,860,000	\$ 1,860,000	\$ -
Steam Turbine & Building	\$ 632,000	\$ 615,000	-	-	\$ 3,501,000	\$ -
Precipitator	\$ 459,000	\$ 447,000	-	-	\$ 1,247,000	\$ -
Scrubber / FGD	\$ 322,000	\$ 313,000	-	-	\$ 906,000	\$ -
Stacks	\$ 110,000	\$ 107,000	-	-	\$ 635,000	\$ -
GSU & Foundation	\$ 46,000	\$ 44,000	-	-	\$ 217,000	\$ -
On-site Concrete Crushing & Disposal	-	-	\$ 72,000	-	\$ 90,000	\$ -
Debris	-	-	\$ 93,000	-	\$ 72,000	\$ -
Scrap	-	-	-	-	\$ 93,000	\$ -
<b>Subtotal</b>	<b>\$ 3,343,000</b>	<b>\$ 3,253,000</b>	<b>\$ 165,000</b>	<b>\$ 1,860,000</b>	<b>\$ 8,621,000</b>	<b>\$ (7,318,000)</b>
<b>Unit 5</b>						
Asbestos Removal						
Boiler	\$ 1,425,000	\$ 1,387,000	-	\$ 1,860,000	\$ 1,860,000	\$ -
Steam Turbine & Building	\$ 636,000	\$ 620,000	-	-	\$ 2,812,000	\$ -
Precipitator	\$ 459,000	\$ 447,000	-	-	\$ 1,256,000	\$ -
Scrubber / FGD	\$ 322,000	\$ 313,000	-	-	\$ 906,000	\$ -
Stacks	\$ 110,000	\$ 107,000	-	-	\$ 635,000	\$ -
GSU & Foundation	\$ 43,000	\$ 42,000	-	-	\$ 217,000	\$ -
On-site Concrete Crushing & Disposal	-	-	\$ 72,000	-	\$ 85,000	\$ -
Debris	-	-	\$ 89,000	-	\$ 72,000	\$ -
Scrap	-	-	-	-	\$ 89,000	\$ -
<b>Subtotal</b>	<b>\$ 2,995,000</b>	<b>\$ 2,916,000</b>	<b>\$ 161,000</b>	<b>\$ 1,860,000</b>	<b>\$ 7,932,000</b>	<b>\$ (6,571,000)</b>
<b>Handling</b>						
Coal Handling Facilities	\$ 933,000	\$ 909,000	-	-	\$ 1,842,000	\$ -
Coal Storage Area Restoration	-	-	-	\$ 3,334,000	\$ 3,334,000	\$ -
Limestone Handling Facilities	\$ 37,000	\$ 36,000	-	-	\$ 73,000	\$ -
On-site Concrete Crushing & Disposal	-	-	\$ 45,000	-	\$ 45,000	\$ -
Debris	-	-	\$ 86,000	-	\$ 86,000	\$ -
Scrap	-	-	-	-	-	\$ (664,000)
<b>Subtotal</b>	<b>\$ 970,000</b>	<b>\$ 945,000</b>	<b>\$ 131,000</b>	<b>\$ 3,334,000</b>	<b>\$ 5,380,000</b>	<b>\$ (664,000)</b>
<b>Common</b>						
Cooling Water Intakes and Circulating Water Pumps	\$ 57,000	\$ 56,000	-	-	\$ 113,000	\$ -
BOP Misc.	\$ 23,000	\$ 22,000	-	-	\$ 45,000	\$ -
Roads	\$ 150,000	\$ 146,000	-	-	\$ 296,000	\$ -
All BOP Buildings	\$ 379,000	\$ 369,000	-	-	\$ 748,000	\$ -

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Fuel Equipment	33,000	\$ 32,000					\$ 65,000	\$ -
All Other Tanks	231,000	\$ 225,000					\$ 456,000	\$ -
Transformers & Foundation	21,000	\$ 21,000					\$ 42,000	\$ -
Mercury & Universal Waste Disposal	-	\$ -					\$ 12,000	\$ 12,000
Plant Wash Down & Disposal	-	\$ -					\$ 58,000	\$ 58,000
Transformer Oil Disposal	-	\$ -					\$ 206,000	\$ 206,000
Transformer Pad and Soil Removal	-	\$ -					\$ 70,000	\$ 70,000
Soil Remediation Beneath Fuel Oil Tank	-	\$ -					\$ 47,000	\$ 47,000
Ground Water Monitoring Wells	-	\$ -					\$ 24,000	\$ 24,000
Underground Storage Tank Remediation	-	\$ -					\$ 47,000	\$ 47,000
Fuel Oil Tank Cleaning	-	\$ -					\$ 11,000	\$ 11,000
Fuel Oil Line Flushing/Cleaning	-	\$ -					\$ 56,000	\$ 56,000
Pond and Basin Closure	357,000	\$ 347,000					\$ 652,000	\$ 1,356,000
Plant Washdown & Materials Disposal	-	\$ -					\$ 58,000	\$ 58,000
Concrete Removal, Crushing, & Disposal	-	\$ -					\$ 70,000	\$ 70,000
Grading & Seeding	-	\$ -					\$ 4,114,000	\$ 4,114,000
Debris	-	\$ -					\$ 35,000	\$ 35,000
Scrap	\$ -	\$ -					\$ -	\$ (855,000)
<b>Subtotal</b>	<b>\$ 1,251,000</b>	<b>\$ 1,218,000</b>	<b>\$ 105,000</b>	<b>\$ 5,355,000</b>	<b>\$ 7,929,000</b>	<b>\$ (855,000)</b>		

<b>Allen Generating Station Subtotal</b>	<b>\$ 17,004,000</b>	<b>\$ 16,550,000</b>	<b>\$ 1,007,000</b>	<b>\$ 16,501,000</b>	<b>\$ 51,062,000</b>	<b>\$ (33,520,000)</b>	
<b>TOTAL DECOM COST (CREDIT)</b>							<b>\$ 51,062,000</b>
<b>PROJECT INDIRECTS (10%)</b>							<b>\$ 5,106,000</b>
<b>CONTINGENCY (20%)</b>							<b>\$ 10,212,000</b>
<b>INVENTORY ADJUSTMENT</b>							<b>\$ 9,356,000</b>
<b>TOTAL PROJECT COST (CREDIT)</b>							<b>\$ 75,736,000</b>
<b>TOTAL NET PROJECT COST (CREDIT)</b>							<b>\$ 41,280,000</b>

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**Table A-3**  
**Bad Creek**  
**Decommissioning Cost Summary**

<b>Bad Creek</b>	<b>Labor</b>	<b>Material and Equipment</b>	<b>Disposal</b>	<b>Environmental</b>	<b>Total Cost</b>	<b>Scrap Value</b>
<i>Pumped Storage</i>						
Pumped Storage Generating Equipment & Facilities	\$ 2,635,000	\$ 2,128,000	\$ -	\$ -	\$ 4,763,000	\$ -
BOP Buildings	\$ 198,000	\$ 236,000	\$ -	\$ -	\$ 434,000	\$ -
Roads	\$ 21,000	\$ 25,000	\$ -	\$ -	\$ 46,000	\$ -
Debris	\$ -	\$ -	\$ 151,000	\$ -	\$ 151,000	\$ -
On Site Crushing	\$ -	\$ -	\$ 16,000	\$ -	\$ 16,000	\$ -
Grading & Seeding	\$ -	\$ -	\$ -	\$ 69,000	\$ 69,000	\$ -
Scrap	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (11,072,000)
<b>Subtotal</b>	<b>\$ 2,854,000</b>	<b>\$ 2,389,000</b>	<b>\$ 167,000</b>	<b>\$ 69,000</b>	<b>\$ 5,479,000</b>	<b>\$ (11,072,000)</b>
<i>Facilities Environmental</i>						
Asbestos Removal	\$ -	\$ -	\$ -	\$ 897,000	\$ 897,000	\$ -
Mercury & Universal Waste Disposal	\$ -	\$ -	\$ -	\$ 12,000	\$ 12,000	\$ -
Transformer Oil Disposal	\$ -	\$ -	\$ -	\$ 46,000	\$ 46,000	\$ -
Transformer Pad and Soil Removal	\$ -	\$ -	\$ -	\$ 9,000	\$ 9,000	\$ -
<b>Subtotal</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 964,000</b>	<b>\$ 964,000</b>	<b>\$ -</b>
<b>Bad Creek Subtotal</b>	<b>\$ 2,854,000</b>	<b>\$ 2,389,000</b>	<b>\$ 167,000</b>	<b>\$ 1,033,000</b>	<b>\$ 6,443,000</b>	<b>\$ (11,072,000)</b>
<b>TOTAL DECOM COST (CREDIT)</b>					<b>\$ 6,443,000</b>	<b>\$ (11,072,000)</b>
<b>PROJECT INDIRECTS (10%)</b>					<b>\$ 644,000</b>	
<b>CONTINGENCY (20%)</b>					<b>\$ 1,289,000</b>	
<b>INVENTORY ADJUSTMENT</b>					<b>\$ 5,719,000</b>	<b>\$ (572,000)</b>
<b>TOTAL PROJECT COST (CREDIT)</b>					<b>\$ 14,095,000</b>	<b>\$ (11,644,000)</b>
<b>TOTAL NET PROJECT COST (CREDIT)</b>					<b>\$ 2,451,000</b>	

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**Table A-4**  
**Bear Creek**  
**Decommissioning Cost Summary**

<b>Bear Creek</b>	<b>Labor</b>	<b>Material and Equipment</b>	<b>Disposal</b>	<b>Environmental</b>	<b>Total Cost</b>	<b>Scrap Value</b>
<i>Hydro Station</i>						
Hydroelectric Equipment & Facilities	\$ 305,000	\$ 297,000	\$ -	\$ 40,000	\$ 642,000	\$ -
BOP Buildings	\$ 13,000	\$ 15,000	\$ -	\$ -	\$ 28,000	\$ -
Roads	\$ 16,000	\$ 19,000	\$ -	\$ -	\$ 35,000	\$ -
Debris	\$ -	\$ -	\$ 10,000	\$ -	\$ 10,000	\$ -
On Site Crushing	\$ -	\$ -	\$ 1,000	\$ -	\$ 1,000	\$ -
Grading & Seeding	\$ -	\$ -	\$ -	\$ 10,000	\$ 10,000	\$ -
Scrap	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (283,000)
<b>Subtotal</b>	<b>\$ 334,000</b>	<b>\$ 331,000</b>	<b>\$ 11,000</b>	<b>\$ 50,000</b>	<b>\$ 726,000</b>	<b>\$ (283,000)</b>
<i>Facilities Environmental</i>						
Asbestos Removal	\$ -	\$ -	\$ -	\$ 23,000	\$ 23,000	\$ -
Universal Waste Disposal	\$ -	\$ -	\$ -	\$ 12,000	\$ 12,000	\$ -
Transformer Pad and Soil Removal	\$ -	\$ -	\$ -	\$ 3,000	\$ 3,000	\$ -
<b>Subtotal</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 38,000</b>	<b>\$ 38,000</b>	<b>\$ -</b>
<b>Bear Creek Subtotal</b>	<b>\$ 334,000</b>	<b>\$ 331,000</b>	<b>\$ 11,000</b>	<b>\$ 88,000</b>	<b>\$ 764,000</b>	<b>\$ (283,000)</b>
<b>TOTAL DECOM COST (CREDIT)</b>					<b>\$ 764,000</b>	<b>\$ (283,000)</b>
<b>PROJECT INDIRECTS (10%)</b>					<b>\$ 76,000</b>	
<b>CONTINGENCY (20%)</b>					<b>\$ 153,000</b>	
<b>TOTAL PROJECT COST (CREDIT)</b>					<b>\$ 993,000</b>	<b>\$ (283,000)</b>
<b>TOTAL NET PROJECT COST (CREDIT)</b>					<b>\$ 710,000</b>	

**Table A-5**  
**Belews Creek**  
**Decommissioning Cost Summary**

Belews Creek	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
<b>Unit 1</b>						
Asbestos Removal						
Boiler	\$ 3,594,000	\$ 3,498,000	-	\$ 5,989,000	\$ 5,989,000	\$ -
Steam Turbine & Building	\$ 2,093,000	\$ 2,038,000	-	-	\$ 7,092,000	\$ -
Precipitators	\$ 1,069,000	\$ 1,040,000	-	-	\$ 4,131,000	\$ -
SCR	\$ 1,322,000	\$ 1,287,000	-	-	\$ 2,109,000	\$ -
Scrubber / FGD	\$ 688,000	\$ 670,000	-	-	\$ 2,609,000	\$ -
Stacks	\$ 115,000	\$ 112,000	-	-	\$ 1,358,000	\$ -
GSU & Foundation	\$ 80,000	\$ 78,000	-	-	\$ 227,000	\$ -
On-site Concrete Crushing & Disposal	-	-	265,000	-	\$ 158,000	\$ -
Debris	-	-	60,000	-	\$ 265,000	\$ -
Scrap	-	-	-	-	\$ 60,000	\$ -
<b>Subtotal</b>	<b>\$ 8,961,000</b>	<b>\$ 8,723,000</b>	<b>\$ 325,000</b>	<b>\$ 5,989,000</b>	<b>\$ 23,998,000</b>	<b>\$ (16,779,000)</b>
<b>Unit 2</b>						
Asbestos Removal						
Boiler	\$ 3,594,000	\$ 3,498,000	-	\$ 5,989,000	\$ 5,989,000	\$ -
Steam Turbine & Building	\$ 2,093,000	\$ 2,038,000	-	-	\$ 7,092,000	\$ -
Precipitator	\$ 1,069,000	\$ 1,040,000	-	-	\$ 4,131,000	\$ -
SCR	\$ 1,322,000	\$ 1,287,000	-	-	\$ 2,109,000	\$ -
Scrubber / FGD	\$ 688,000	\$ 670,000	-	-	\$ 2,609,000	\$ -
Stacks	\$ 115,000	\$ 112,000	-	-	\$ 1,358,000	\$ -
GSU & Foundation	\$ 80,000	\$ 78,000	-	-	\$ 227,000	\$ -
On-site Concrete Crushing & Disposal	-	-	265,000	-	\$ 158,000	\$ -
Debris	-	-	60,000	-	\$ 265,000	\$ -
Scrap	-	-	-	-	\$ 60,000	\$ -
<b>Subtotal</b>	<b>\$ 8,961,000</b>	<b>\$ 8,723,000</b>	<b>\$ 325,000</b>	<b>\$ 5,989,000</b>	<b>\$ 23,998,000</b>	<b>\$ (16,778,000)</b>
<b>Handling</b>						
Coal Handling Facilities						
Coal Storage Area Restoration	\$ 1,038,000	\$ 1,011,000	-	\$ 3,227,000	\$ 2,049,000	\$ -
Limestone Handling Facilities	-	-	-	-	\$ 3,227,000	\$ -
On-site Concrete Crushing & Disposal	\$ 178,000	\$ 174,000	-	-	\$ 352,000	\$ -
Debris	-	-	54,000	-	\$ 54,000	\$ -
Scrap	-	-	101,000	-	\$ 101,000	\$ -
<b>Subtotal</b>	<b>\$ 1,216,000</b>	<b>\$ 1,185,000</b>	<b>\$ 155,000</b>	<b>\$ 3,227,000</b>	<b>\$ 5,783,000</b>	<b>\$ (912,000)</b>
<b>Common</b>						
Cooling Water Intakes and Circulating Water Pumps						
Roads	\$ 91,000	\$ 89,000	-	-	\$ 180,000	\$ -
All BOP Buildings	\$ 182,000	\$ 177,000	-	-	\$ 359,000	\$ -
Fuel Equipment	\$ 552,000	\$ 538,000	-	-	\$ 1,090,000	\$ -
All Other Tanks	\$ 63,000	\$ 61,000	-	-	\$ 124,000	\$ -
Transformers & Foundation	\$ 207,000	\$ 201,000	-	-	\$ 408,000	\$ -
Refractory	\$ 73,000	\$ 71,000	-	-	\$ 144,000	\$ -
Mercury & Universal Waste Disposal	-	-	-	14,000	\$ 14,000	\$ -
Plant Wash Down & Disposal	-	-	-	14,000	\$ 14,000	\$ -
Transformer Oil Disposal	-	-	-	59,000	\$ 59,000	\$ -
Transformer Pad and Soil Removal	-	-	-	271,000	\$ 271,000	\$ -
Soil Remediation Beneath Fuel Oil Tank	-	-	-	18,000	\$ 18,000	\$ -
Fuel Oil Tank Cleaning	-	-	-	39,000	\$ 39,000	\$ -
Fuel Oil Line Flushing/Cleaning	-	-	-	17,000	\$ 17,000	\$ -
Pond Closure	-	-	-	30,000	\$ 30,000	\$ -
Well Removal	-	-	-	1,962,000	\$ 1,962,000	\$ -
Underground Storage Tank Remediation	-	-	-	32,000	\$ 32,000	\$ -
Concrete Removal, Crushing, & Disposal	-	-	46,000	-	\$ 7,000	\$ 7,000
Grading & Seeding	-	-	-	-	46,000	\$ -
Debris	-	-	6,000	-	4,051,000	\$ 4,051,000
Scrap	-	-	-	-	6,000	\$ -
<b>Subtotal</b>	<b>\$ 1,168,000</b>	<b>\$ 1,137,000</b>	<b>\$ 52,000</b>	<b>\$ 6,514,000</b>	<b>\$ 8,871,000</b>	<b>\$ (1,345,000)</b>
<b>Belews Creek Subtotal</b>	<b>\$ 20,306,000</b>	<b>\$ 19,768,000</b>	<b>\$ 857,000</b>	<b>\$ 21,719,000</b>	<b>\$ 62,650,000</b>	<b>\$ (35,814,000)</b>
<b>TOTAL DECOM COST (CREDIT)</b>					<b>\$ 62,650,000</b>	<b>\$ (35,814,000)</b>
<b>PROJECT INDIRECTS (10%)</b>						<b>\$ 6,265,000</b>
<b>CONTINGENCY (20%)</b>						<b>\$ 12,530,000</b>
<b>INVENTORY ADJUSTMENT</b>						<b>\$ 33,156,000</b>
<b>TOTAL PROJECT COST (CREDIT)</b>						<b>\$ 114,601,000</b>
<b>TOTAL NET PROJECT COST (CREDIT)</b>						<b>\$ 75,471,000</b>

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**Table A-6**  
**Bridgewater**  
**Decommissioning Cost Summary**

Bridgewater	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
<i>Hydro Station</i>						
Hydroelectric Equipment & Facilities	677,000	\$ 628,000	\$ -	\$ 47,000	\$ 1,352,000	\$ -
BOP Buildings	109,000	\$ 130,000	\$ -	\$ -	\$ 239,000	\$ -
Roads	12,000	\$ 14,000	\$ -	\$ -	\$ 26,000	\$ -
Debris	-	\$ -	\$ 36,000	\$ -	\$ 36,000	\$ -
On Site Crushing	-	\$ -	\$ 8,000	\$ -	\$ 8,000	\$ -
Grading & Seeding	-	\$ -	\$ -	\$ 66,000	\$ 66,000	\$ -
Scrap	-	\$ -	\$ -	\$ -	\$ -	\$ (799,000)
<b>Subtotal</b>	<b>\$ 798,000</b>	<b>\$ 772,000</b>	<b>\$ 44,000</b>	<b>\$ 113,000</b>	<b>\$ 1,727,000</b>	<b>\$ (799,000)</b>
<i>Facilities Environmental</i>						
Asbestos Removal	-	\$ -	\$ -	\$ 201,000	\$ 201,000	\$ -
Universal Waste Disposal	-	\$ -	\$ -	\$ 13,000	\$ 13,000	\$ -
Transformer Oil Disposal	-	\$ -	\$ -	\$ 9,000	\$ 9,000	\$ -
Transformer Pad and Soil Removal	-	\$ -	\$ -	\$ 4,000	\$ 4,000	\$ -
<b>Subtotal</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 227,000</b>	<b>\$ 227,000</b>	<b>\$ -</b>
<b>Bridgewater Subtotal</b>	<b>\$ 798,000</b>	<b>\$ 772,000</b>	<b>\$ 44,000</b>	<b>\$ 340,000</b>	<b>\$ 1,954,000</b>	<b>\$ (799,000)</b>
<b>TOTAL DECOM COST (CREDIT)</b>					<b>\$ 1,954,000</b>	<b>\$ (799,000)</b>
<b>PROJECT INDIRECTS (10%)</b>					<b>\$ 195,000</b>	
<b>CONTINGENCY (20%)</b>					<b>\$ 391,000</b>	
<b>INVENTORY ADJUSTMENT</b>					<b>\$ 92,000</b>	<b>\$ (9,000)</b>
<b>TOTAL PROJECT COST (CREDIT)</b>					<b>\$ 2,632,000</b>	<b>\$ (808,000)</b>
<b>TOTAL NET PROJECT COST (CREDIT)</b>					<b>\$ 1,824,000</b>	

**Table A-7**  
**Buck Steam Station**  
**Decommissioning Cost Summary**

	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
<b>Buck Steam Station</b>						
<i>Unit 1</i>						
Aux Boiler	38,000	\$ 36,000			74,000	\$ -
CTGs and HRSGs	2,085,000	\$ 1,973,000			4,058,000	\$ -
Steam Turbine & Building	906,000	\$ 858,000			1,764,000	\$ -
SCR	60,000	\$ 57,000			117,000	\$ -
Cooling Towers & Basin	327,000	\$ 310,000			637,000	\$ -
Stacks	72,000	\$ 69,000			141,000	\$ -
GSU, Electrical & Foundation	171,000	\$ 162,000			333,000	\$ -
On-site Concrete Crushing & Disposal	-	\$ -	122,000		122,000	\$ -
Debris	-	\$ -	22,000		22,000	\$ -
Scrap	-	\$ -			-	\$ (7,918,000)
<b>Subtotal</b>	<b>\$ 3,659,000</b>	<b>\$ 3,465,000</b>	<b>\$ 144,000</b>	<b>\$ -</b>	<b>\$ 7,268,000</b>	<b>\$ (7,918,000)</b>
<i>Common</i>						
Cooling Water Intakes and Circulating Water Pumps	\$ 114,000	\$ 108,000		\$ 303,000	\$ 525,000	\$ -
BOP Misc.	\$ 10,000	\$ 10,000		-	\$ 20,000	\$ -
Roads	\$ 47,000	\$ 45,000		-	\$ 92,000	\$ -
All BOP Buildings	\$ 88,000	\$ 84,000		-	\$ 172,000	\$ -
All Other Tanks	\$ 626,000	\$ 593,000		-	\$ 1,219,000	\$ -
Mercury & Universal Waste Disposal	-	\$ -		\$ 25,000	\$ 25,000	\$ -
Transformer Oil Disposal	-	\$ -		\$ 119,000	\$ 119,000	\$ -
Transformer Pad and Soil Removal	-	\$ -		\$ 65,000	\$ 65,000	\$ -
Soil Remediation Beneath Fuel Tank	-	\$ -		\$ 11,000	\$ 11,000	\$ -
Fuel Tank Cleaning	-	\$ -		\$ 1,000	\$ 1,000	\$ -
Fuel Line Flushing/Cleaning	-	\$ -		\$ 7,000	\$ 7,000	\$ -
Well Closure	-	\$ -		\$ 44,000	\$ 44,000	\$ -
Concrete Removal, Crushing, & Disposal	-	\$ -	\$ 53,000	-	\$ 53,000	\$ -
Grading & Seeding	-	\$ -	-	\$ 641,000	\$ 641,000	\$ -
Scrap	-	\$ -		-	-	\$ (455,000)
<b>Subtotal</b>	<b>\$ 885,000</b>	<b>\$ 840,000</b>	<b>\$ 53,000</b>	<b>\$ 1,216,000</b>	<b>\$ 2,994,000</b>	<b>\$ (455,000)</b>
<b>Buck Steam Station Subtotal</b>	<b>\$ 4,544,000</b>	<b>\$ 4,305,000</b>	<b>\$ 197,000</b>	<b>\$ 1,216,000</b>	<b>\$ 10,262,000</b>	<b>\$ (8,373,000)</b>
<b>TOTAL DECOM COST (CREDIT)</b>					<b>\$ 10,262,000</b>	<b>\$ (8,373,000)</b>
<b>PROJECT INDIRECTS (10%)</b>					<b>\$ 1,026,000</b>	
<b>CONTINGENCY (20%)</b>					<b>\$ 2,052,000</b>	
<b>INVENTORY ADJUSTMENT</b>					<b>\$ 8,219,000</b>	<b>\$ (821,900)</b>
<b>TOTAL PROJECT COST (CREDIT)</b>					<b>\$ 21,559,000</b>	<b>\$ (9,194,900)</b>
<b>TOTAL NET PROJECT COST (CREDIT)</b>					<b>\$ 12,364,100</b>	

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**Table A-8**  
**Cedar Cliff**  
**Decommissioning Cost Summary**

	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
<b>Cedar Cliff</b>						
Hydro Station						
Demolition	425,000	\$ 445,000	\$ -	\$ 78,000	\$ 948,000	\$ -
BOP Buildings	4,000	\$ 5,000	\$ -	\$ -	\$ 9,000	\$ -
Debris	-	\$ -	\$ 6,000	\$ -	\$ 6,000	\$ -
Grading & Seeding	-	\$ -	\$ -	\$ 17,000	\$ 17,000	\$ -
Scrap	-	\$ -	\$ -	\$ -	\$ -	\$ (308,000)
<b>Subtotal</b>	<b>\$ 429,000</b>	<b>\$ 450,000</b>	<b>\$ 6,000</b>	<b>\$ 95,000</b>	<b>\$ 980,000</b>	<b>\$ (308,000)</b>
Facilities Environmental						
Asbestos Removal	-	\$ -	\$ -	\$ 27,000	\$ 27,000	\$ -
Mercury & Universal Waste Disposal	-	\$ -	\$ -	\$ 12,000	\$ 12,000	\$ -
Transformer Pad and Soil Removal	-	\$ -	\$ -	\$ 3,000	\$ 3,000	\$ -
<b>Subtotal</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 42,000</b>	<b>\$ 42,000</b>	<b>\$ -</b>
<b>Cedar Cliff Subtotal</b>	<b>\$ 429,000</b>	<b>\$ 450,000</b>	<b>\$ 6,000</b>	<b>\$ 137,000</b>	<b>\$ 1,022,000</b>	<b>\$ (308,000)</b>
<b>TOTAL DECOM COST (CREDIT)</b>					<b>\$ 1,022,000</b>	<b>\$ (308,000)</b>
<b>PROJECT INDIRECTS (10%)</b>					<b>\$ 102,000</b>	
<b>CONTINGENCY (20%)</b>					<b>\$ 204,000</b>	
<b>TOTAL PROJECT COST (CREDIT)</b>					<b>\$ 1,328,000</b>	<b>\$ (308,000)</b>
<b>TOTAL NET PROJECT COST (CREDIT)</b>					<b>\$ 1,020,000</b>	

**Table A-9**  
**Cedar Creek**  
**Decommissioning Cost Summary**

	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
<b>Cedar Creek</b>						
<i>Hydro Station</i>						
Hydroelectric Equipment & Facilities	\$ 725,000	\$ 643,000	-	-	\$ 1,368,000	-
BOP Buildings	\$ 8,000	\$ 9,000	-	-	\$ 17,000	-
Roads	\$ 2,000	\$ 2,000	-	-	\$ 4,000	-
Debris	-	-	6,000	-	\$ 6,000	-
On Site Crushing	-	-	1,000	-	\$ 1,000	-
Grading & Seeding	-	-	-	79,000	\$ 79,000	-
Scrap	-	-	-	-	-	(945,000)
<b>Subtotal</b>	<b>\$ 735,000</b>	<b>\$ 654,000</b>	<b>\$ 7,000</b>	<b>\$ 79,000</b>	<b>\$ 1,475,000</b>	<b>\$ (945,000)</b>
<i>Facilities Environmental</i>						
Asbestos Removal	-	-	-	180,000	\$ 180,000	-
Mercury & Universal Waste Disposal	-	-	-	13,000	\$ 13,000	-
Transformer Oil Disposal	-	-	-	11,000	\$ 11,000	-
Transformer Pad and Soil Removal	-	-	-	6,000	\$ 6,000	-
<b>Subtotal</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 210,000</b>	<b>\$ 210,000</b>	<b>\$ -</b>
<b>Cedar Creek Subtotal</b>	<b>\$ 735,000</b>	<b>\$ 654,000</b>	<b>\$ 7,000</b>	<b>\$ 289,000</b>	<b>\$ 1,685,000</b>	<b>\$ (945,000)</b>
<b>TOTAL DECOM COST (CREDIT)</b>					<b>\$ 1,685,000</b>	<b>\$ (945,000)</b>
<b>PROJECT INDIRECTS (10%)</b>					<b>\$ 169,000</b>	
<b>CONTINGENCY (20%)</b>					<b>\$ 337,000</b>	
<b>INVENTORY ADJUSTMENT</b>					<b>\$ 107,000</b>	<b>\$ (11,000)</b>
<b>TOTAL PROJECT COST (CREDIT)</b>					<b>\$ 2,298,000</b>	<b>\$ (956,000)</b>
<b>TOTAL NET PROJECT COST (CREDIT)</b>					<b>\$ 1,342,000</b>	

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**Table A-10**  
**Clemson CHP**  
**Decommissioning Cost Summary**

	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
<b>Clemson CHP</b>						
<i>Unit 1</i>						
CTGs and HRSGs		110,000 \$	107,000		217,000 \$	-
Stacks		35,000 \$	34,000		69,000 \$	-
On-site Concrete Crushing & Disposal		-	-		3,000 \$	-
Debris		-	-		1,000 \$	-
Scrap		-	-		-	(348,000)
<b>Subtotal</b>		<b>\$ 145,000</b>	<b>\$ 141,000</b>	<b>\$ 4,000</b>	<b>\$ 290,000</b>	<b>\$ (348,000)</b>
<i>Common</i>						
Roads		7,000 \$	7,000		14,000 \$	-
All BOP Buildings		90,000 \$	88,000		178,000 \$	-
Transformers & Foundation		5,000 \$	5,000		10,000 \$	-
Concrete Removal, Crushing, & Disposal		- \$	-		5,000 \$	-
Grading & Seeding		- \$	-		53,000 \$	53,000 \$
Debris		- \$	-		- \$	3,000 \$
Scrap		- \$	-		- \$	(80,000)
<b>Subtotal</b>		<b>\$ 102,000</b>	<b>\$ 100,000</b>	<b>\$ 8,000</b>	<b>\$ 53,000</b>	<b>\$ 263,000</b>
<b>Clemson CHP Subtotal</b>		<b>\$ 247,000</b>	<b>\$ 241,000</b>	<b>\$ 12,000</b>	<b>\$ 53,000</b>	<b>\$ 553,000</b>
<b>TOTAL DECOM COST (CREDIT)</b>					<b>\$ 553,000</b>	<b>\$ (428,000)</b>
<b>PROJECT INDIRECTS (10%)</b>					<b>\$ 55,000</b>	
<b>CONTINGENCY (20%)</b>					<b>\$ 111,000</b>	
<b>INVENTORY ADJUSTMENT</b>					<b>\$ 357,000</b>	<b>\$ (35,700)</b>
<b>TOTAL PROJECT COST (CREDIT)</b>					<b>\$ 1,076,000</b>	<b>\$ (463,700)</b>
<b>TOTAL NET PROJECT COST (CREDIT)</b>					<b>\$ 612,300</b>	

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**Table A-11**  
**Cliffside**  
**Decommissioning Cost Summary**

Cliffside	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
<b>Unit 5</b>						
Asbestos Removal	-	\$ 3,980,000	-	5,934,000	\$ 5,934,000	\$ -
Boiler	4,089,000	\$ 1,351,000	-	-	\$ 8,069,000	\$ -
Steam Turbine & Building	1,388,000	\$ 529,000	-	-	\$ 2,739,000	\$ -
Precipitators	543,000	\$ 719,000	-	-	\$ 1,072,000	\$ -
SCR	738,000	\$ 674,000	-	-	\$ 1,457,000	\$ -
Scrubber / FGD	692,000	\$ 412,000	-	-	\$ 1,366,000	\$ -
Cooling Towers & Basin	423,000	\$ 73,000	-	-	\$ 835,000	\$ -
Stacks	75,000	\$ 216,000	-	-	\$ 148,000	\$ -
Cooling Water Intakes and Circulating Water Pumps	512,000	\$ 82,000	-	830,000	\$ 1,840,000	\$ -
GSU & Foundation	84,000	\$ 65,000	-	-	\$ 166,000	\$ -
On-site Concrete Crushing & Disposal	-	-	216,000	-	\$ 216,000	\$ -
Debris	-	-	65,000	-	\$ 65,000	\$ -
Scrap	-	-	-	-	-	\$ (14,043,000)
<b>Subtotal</b>	<b>\$ 8,544,000</b>	<b>\$ 8,318,000</b>	<b>\$ 281,000</b>	<b>\$ 6,764,000</b>	<b>\$ 23,907,000</b>	<b>\$ (14,043,000)</b>
<b>Unit 6</b>						
Boiler	4,901,000	\$ 4,771,000	-	-	\$ 9,672,000	\$ -
Steam Turbine & Building	1,617,000	\$ 1,574,000	-	-	\$ 3,191,000	\$ -
Precipitator	718,000	\$ 699,000	-	-	\$ 1,417,000	\$ -
SCR	895,000	\$ 872,000	-	-	\$ 1,767,000	\$ -
Scrubber / FGD	1,138,000	\$ 1,108,000	-	-	\$ 2,246,000	\$ -
Baghouse	294,000	\$ 286,000	-	-	\$ 580,000	\$ -
Cooling Towers & Basin	483,000	\$ 470,000	-	-	\$ 953,000	\$ -
Cooling Water Intakes and Circulating Water Pumps	512,000	\$ 498,000	-	730,000	\$ 1,740,000	\$ -
GSU & Foundation	113,000	\$ 110,000	-	-	\$ 223,000	\$ -
On-site Concrete Crushing & Disposal	-	-	216,000	-	\$ 216,000	\$ -
Debris	-	-	65,000	-	\$ 65,000	\$ -
Scrap	-	-	-	-	-	\$ (17,272,000)
<b>Subtotal</b>	<b>\$ 10,671,000</b>	<b>\$ 10,388,000</b>	<b>\$ 281,000</b>	<b>\$ 730,000</b>	<b>\$ 22,070,000</b>	<b>\$ (17,272,000)</b>
<b>Handling</b>						
Coal Handling Facilities	\$ 487,000	\$ 474,000	-	-	\$ 961,000	\$ -
Coal Storage Area Restoration	-	-	-	2,105,000	\$ 2,105,000	\$ -
Limestone Handling Facilities	26,000	\$ 25,000	-	-	\$ 51,000	\$ -
Debris	-	-	83,000	-	\$ 83,000	\$ -
Scrap	-	-	-	-	-	\$ (728,000)
<b>Subtotal</b>	<b>\$ 513,000</b>	<b>\$ 499,000</b>	<b>\$ 83,000</b>	<b>\$ 2,105,000</b>	<b>\$ 3,200,000</b>	<b>\$ (728,000)</b>
<b>Common</b>						
Cooling Water Intakes and Circulating Water Pumps	\$ 43,000	\$ 42,000	-	-	\$ 85,000	\$ -
BOP Misc.	9,000	\$ 9,000	-	-	\$ 18,000	\$ -
Roads	220,000	\$ 214,000	-	-	\$ 434,000	\$ -
All BOP Buildings	459,000	\$ 447,000	-	-	\$ 906,000	\$ -
Fuel Equipment	14,000	\$ 14,000	-	21,000	\$ 49,000	\$ -
All Other Tanks	401,000	\$ 390,000	-	-	\$ 791,000	\$ -
Transformers & Foundation	28,000	\$ 27,000	-	263,000	\$ 318,000	\$ -
Mercury & Universal Waste Disposal	-	-	-	-	\$ 12,000	\$ 12,000
Refractory	-	-	-	-	\$ 15,000	\$ 15,000
Closure of Deep Wells	-	-	-	-	\$ 9,000	\$ 9,000
Pond Closure	-	-	-	1,118,000	\$ 1,118,000	\$ -
Low Head Dam Removal	-	-	-	773,000	\$ 773,000	\$ -
Plant Washdown & Materials Disposal	-	-	-	57,000	\$ 57,000	\$ -
Concrete Removal, Crushing, & Disposal	-	-	118,000	-	\$ 118,000	\$ -
Grading & Seeding	-	-	-	4,440,000	\$ 4,440,000	\$ -
Debris	-	-	3,000	-	\$ 3,000	\$ -
Scrap	-	-	-	-	-	\$ (753,000)
<b>Subtotal</b>	<b>\$ 1,174,000</b>	<b>\$ 1,143,000</b>	<b>\$ 121,000</b>	<b>\$ 6,708,000</b>	<b>\$ 9,146,000</b>	<b>\$ (753,000)</b>
<b>Cliffside Subtotal</b>	<b>\$ 20,902,000</b>	<b>\$ 20,348,000</b>	<b>\$ 766,000</b>	<b>\$ 16,307,000</b>	<b>\$ 58,323,000</b>	<b>\$ (32,796,000)</b>
<b>TOTAL DECOM COST (CREDIT)</b>					<b>\$ 58,323,000</b>	<b>\$ (32,796,000)</b>
<b>PROJECT INDIRECTS (10%)</b>					<b>\$ 5,832,000</b>	
<b>CONTINGENCY (20%)</b>					<b>\$ 11,665,000</b>	
<b>INVENTORY ADJUSTMENT</b>					<b>\$ 28,973,000</b>	<b>\$ (2,897,000)</b>
<b>TOTAL PROJECT COST (CREDIT)</b>					<b>\$ 104,793,000</b>	<b>\$ (35,693,000)</b>
<b>TOTAL NET PROJECT COST (CREDIT)</b>					<b>\$ 69,100,000</b>	

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**Table A-12**  
**Cowans Ford**  
**Decommissioning Cost Summary**

	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
<b>Cowans Ford</b>						
<i>Hydro Station</i>						
Demolition	1,217,000	\$ 1,062,000	\$ -	\$ -	\$ 2,279,000	\$ -
BOP Buildings	9,000	\$ 10,000	\$ -	\$ -	\$ 19,000	\$ -
Roads	10,000	\$ 12,000	\$ -	\$ -	\$ 22,000	\$ -
Debris	-	\$ -	\$ 13,000	\$ -	\$ 13,000	\$ -
On Site Crushing	-	\$ -	\$ 2,000	\$ -	\$ 2,000	\$ -
Grading & Seeding	-	\$ -	\$ -	\$ 57,000	\$ 57,000	\$ -
Scrap	-	\$ -	\$ -	\$ -	\$ -	\$ (4,196,000)
<b>Subtotal</b>	<b>\$ 1,236,000</b>	<b>\$ 1,084,000</b>	<b>\$ 15,000</b>	<b>\$ 57,000</b>	<b>\$ 2,392,000</b>	<b>\$ (4,196,000)</b>
<i>Facilities Environmental</i>						
Asbestos Removal	-	\$ -	\$ -	\$ 416,000	\$ 416,000	\$ -
Mercury & Universal Waste Disposal	-	\$ -	\$ -	\$ 13,000	\$ 13,000	\$ -
Transformer Oil Disposal	-	\$ -	\$ -	\$ 102,000	\$ 102,000	\$ -
Transformer Pad and Soil Removal	-	\$ -	\$ -	\$ 12,000	\$ 12,000	\$ -
<b>Subtotal</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 543,000</b>	<b>\$ 543,000</b>	<b>\$ -</b>
<b>Cowans Ford Subtotal</b>	<b>\$ 1,236,000</b>	<b>\$ 1,084,000</b>	<b>\$ 15,000</b>	<b>\$ 600,000</b>	<b>\$ 2,935,000</b>	<b>\$ (4,196,000)</b>
<b>TOTAL DECOM COST (CREDIT)</b>					<b>\$ 2,935,000</b>	<b>\$ (4,196,000)</b>
<b>PROJECT INDIRECTS (10%)</b>					<b>\$ 294,000</b>	
<b>CONTINGENCY (20%)</b>					<b>\$ 587,000</b>	
<b>INVENTORY ADJUSTMENT</b>					<b>\$ 139,000</b>	<b>\$ (14,000)</b>
<b>TOTAL PROJECT COST (CREDIT)</b>					<b>\$ 3,955,000</b>	<b>\$ (4,210,000)</b>
<b>TOTAL NET PROJECT COST (CREDIT)</b>					<b>\$ (255,000)</b>	

**Table A-13**  
**Dan River Steam Station**  
**Decommissioning Cost Summary**

	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
<b>Dan River Steam Station</b>						
<i>Unit 1</i>						
Aux Boiler	9,000	\$ 9,000			18,000	\$ -
CTGs and HRSGs	2,144,000	\$ 2,087,000	-	-	4,231,000	\$ -
Steam Turbine & Building	865,000	\$ 842,000	-	-	1,707,000	\$ -
SCR	58,000	\$ 56,000	-	-	114,000	\$ -
Cooling Towers & Basin	328,000	\$ 319,000	-	-	647,000	\$ -
Stacks	67,000	\$ 65,000	-	-	132,000	\$ -
GSU, Electrical & Foundation	157,000	\$ 153,000	-	-	310,000	\$ -
On-site Concrete Crushing & Disposal	-	\$ -	119,000	-	119,000	\$ -
Debris	-	\$ -	19,000	-	19,000	\$ -
Scrap	-	\$ -	-	-	-	\$ (6,978,000)
<b>Subtotal</b>	<b>\$ 3,628,000</b>	<b>\$ 3,531,000</b>	<b>\$ 138,000</b>	<b>\$ -</b>	<b>\$ 7,297,000</b>	<b>\$ (6,978,000)</b>
<i>Common</i>						
Cooling Water Intakes and Circulating Water Pumps	\$ 94,000	\$ 92,000	-	\$ 505,000	\$ 691,000	\$ -
BOP Misc.	16,000	\$ 15,000	-	-	31,000	\$ -
Roads	33,000	\$ 32,000	-	-	65,000	\$ -
All BOP Buildings	73,000	\$ 71,000	-	-	144,000	\$ -
Fuel Equipment	\$ 4,000	\$ 4,000	-	-	8,000	\$ -
All Other Tanks	402,000	\$ 392,000	-	-	794,000	\$ -
Mercury & Universal Waste Disposal	-	\$ -	-	\$ 23,000	\$ 23,000	\$ -
Transformer Oil Disposal	-	\$ -	-	\$ 76,000	\$ 76,000	\$ -
Transformer Pad and Soil Removal	-	\$ -	-	\$ 66,000	\$ 66,000	\$ -
Low Head Dam Removal	-	\$ -	-	\$ 950,000	\$ 950,000	\$ -
Concrete Removal, Crushing, & Disposal	-	\$ -	\$ 34,000	-	\$ 34,000	\$ -
Grading & Seeding	-	\$ -	-	\$ 520,000	\$ 520,000	\$ -
Debris	-	\$ -	\$ 4,000	-	\$ 4,000	\$ -
Scrap	-	\$ -	-	-	-	\$ (377,000)
<b>Subtotal</b>	<b>\$ 622,000</b>	<b>\$ 606,000</b>	<b>\$ 38,000</b>	<b>\$ 2,140,000</b>	<b>\$ 3,406,000</b>	<b>\$ (377,000)</b>
<b>Dan River Steam Station Subtotal</b>	<b>\$ 4,250,000</b>	<b>\$ 4,137,000</b>	<b>\$ 176,000</b>	<b>\$ 2,140,000</b>	<b>\$ 10,703,000</b>	<b>\$ (7,355,000)</b>
<b>TOTAL DECOM COST (CREDIT)</b>					<b>\$ 10,703,000</b>	<b>\$ (7,355,000)</b>
<b>PROJECT INDIRECTS (10%)</b>					<b>\$ 1,070,000</b>	
<b>CONTINGENCY (20%)</b>					<b>\$ 2,141,000</b>	
<b>INVENTORY ADJUSTMENT</b>					<b>\$ 9,857,000</b>	<b>\$ (986,000)</b>
<b>TOTAL PROJECT COST (CREDIT)</b>					<b>\$ 23,771,000</b>	<b>\$ (8,341,000)</b>
<b>TOTAL NET PROJECT COST (CREDIT)</b>					<b>\$ 15,430,000</b>	

Duke Energy Carolinas, LLC

**Table A-14**  
**Dearborn Hydro Station**  
**Decommissioning Cost Summary**

	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
<b>Dearborn Hydro Station</b>						
Hydro Station						
Demolition	740,000	\$ 665,000	-	-	1,405,000	-
Roads	6,000	\$ 8,000	-	-	14,000	-
Debris	-	\$ -	9,000	-	9,000	-
On Site Crushing	-	\$ -	1,000	-	1,000	-
Grading & Seeding	-	\$ -	-	29,000	29,000	-
Scrap	-	\$ -	-	-	-	(1,135,000)
<b>Subtotal</b>	<b>\$ 746,000</b>	<b>\$ 673,000</b>	<b>\$ 10,000</b>	<b>\$ 29,000</b>	<b>\$ 1,458,000</b>	<b>\$ (1,135,000)</b>
Facilities Environmental						
Asbestos Removal	-	\$ -	-	149,000	\$ 149,000	-
Mercury & Universal Waste Disposal	-	\$ -	-	13,000	\$ 13,000	-
Transformer Oil Disposal	-	\$ -	-	27,000	\$ 27,000	-
Transformer Pad and Soil Removal	-	\$ -	-	8,000	\$ 8,000	-
<b>Subtotal</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 197,000</b>	<b>\$ 197,000</b>	<b>\$ -</b>
<b>Dearborn Hydro Station Subtotal</b>	<b>\$ 746,000</b>	<b>\$ 673,000</b>	<b>\$ 10,000</b>	<b>\$ 226,000</b>	<b>\$ 1,655,000</b>	<b>\$ (1,135,000)</b>
<b>TOTAL DECOM COST (CREDIT)</b>					<b>\$ 1,655,000</b>	<b>\$ (1,135,000)</b>
<b>PROJECT INDIRECTS (10%)</b>					<b>\$ 166,000</b>	
<b>CONTINGENCY (20%)</b>					<b>\$ 331,000</b>	
<b>INVENTORY ADJUSTMENT</b>					<b>\$ 25,000</b>	<b>\$ (3,000)</b>
<b>TOTAL PROJECT COST (CREDIT)</b>					<b>\$ 2,177,000</b>	<b>\$ (1,138,000)</b>
<b>TOTAL NET PROJECT COST (CREDIT)</b>					<b>\$ 1,039,000</b>	

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**Table A-15**  
**Fishing Creek Hydro Station**  
**Decommissioning Cost Summary**

	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
<b>Fishing Creek Hydro Station</b>						
<i>Hydro Station</i>						
Demolition	1,132,000	\$ 993,000	-	-	2,125,000	-
Roads	10,000	\$ 12,000	-	-	22,000	-
Debris	-	\$ -	7,000	-	7,000	-
On Site Crushing	-	\$ -	1,000	-	1,000	-
Grading & Seeding	-	\$ -	-	32,000	32,000	-
Scrap	-	\$ -	-	-	-	(1,461,000)
<b>Subtotal</b>	<b>\$ 1,142,000</b>	<b>\$ 1,005,000</b>	<b>\$ 8,000</b>	<b>\$ 32,000</b>	<b>\$ 2,187,000</b>	<b>\$ (1,461,000)</b>
<i>Facilities Environmental</i>						
Asbestos Removal	-	\$ -	-	218,000	\$ 218,000	-
Mercury & Universal Waste Disposal	-	\$ -	-	13,000	\$ 13,000	-
Transformer Oil Disposal	-	\$ -	-	20,000	\$ 20,000	-
Transformer Pad and Soil Removal	-	\$ -	-	4,000	\$ 4,000	-
<b>Subtotal</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 255,000</b>	<b>\$ 255,000</b>	<b>\$ -</b>
<b>Fishing Creek Hydro Station Subtotal</b>	<b>\$ 1,142,000</b>	<b>\$ 1,005,000</b>	<b>\$ 8,000</b>	<b>\$ 287,000</b>	<b>\$ 2,442,000</b>	<b>\$ (1,461,000)</b>
<b>TOTAL DECOM COST (CREDIT)</b>					<b>\$ 2,442,000</b>	<b>\$ (1,461,000)</b>
<b>PROJECT INDIRECTS (10%)</b>					<b>\$ 244,000</b>	
<b>CONTINGENCY (20%)</b>					<b>\$ 488,000</b>	
<b>INVENTORY ADJUSTMENT</b>					<b>\$ 100,000</b>	<b>\$ (10,000)</b>
<b>TOTAL PROJECT COST (CREDIT)</b>					<b>\$ 3,274,000</b>	<b>\$ (1,471,000)</b>
<b>TOTAL NET PROJECT COST (CREDIT)</b>					<b>\$ 1,803,000</b>	

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**Table A-16**  
**Gaston Solar**  
**Solar Decommissioning Cost Summary**

	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
<b>Gaston Solar</b>						
<i>Solar Farm</i>						
Solar Panel Removal/Recycling	\$ 433,000	\$ 516,400	\$ 84,700	\$ -	\$ 1,034,100	\$ -
Panel Supports/Rack	\$ 711,100	\$ 848,000	\$ -	\$ -	\$ 1,559,100	\$ -
Electrical & Wiring	\$ 56,500	\$ 67,300	\$ -	\$ -	\$ 123,800	\$ -
Site Restoration	\$ 41,200	\$ 49,100	\$ -	\$ 540,300	\$ 630,600	\$ -
On-site Concrete Crushing and Removal	\$ -	\$ -	\$ 2,800	\$ -	\$ 2,800	\$ -
Debris	\$ -	\$ -	\$ 1,600	\$ -	\$ 1,600	\$ -
Scrap	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (2,110,400)
<b>Subtotal</b>	<b>\$ 1,241,800</b>	<b>\$ 1,480,800</b>	<b>\$ 89,100</b>	<b>\$ 540,300</b>	<b>\$ 3,352,000</b>	<b>\$ (2,110,400)</b>
<b>Gaston Solar Subtotal</b>	<b>\$ 1,241,800</b>	<b>\$ 1,480,800</b>	<b>\$ 89,100</b>	<b>\$ 540,300</b>	<b>\$ 3,352,000</b>	<b>\$ (2,110,400)</b>
<b>TOTAL DECOM COST (CREDIT)</b>					<b>\$ 3,352,000</b>	<b>\$ (2,110,400)</b>
<b>PROJECT INDIRECTS (10%)</b>					<b>\$ 335,200</b>	
<b>CONTINGENCY (20%)</b>					<b>\$ 670,400</b>	
<b>TOTAL PROJECT COST (CREDIT)</b>					<b>\$ 4,357,600</b>	<b>\$ (2,110,400)</b>
<b>TOTAL NET PROJECT COST (CREDIT)</b>					<b>\$ 2,247,200</b>	

Duke Energy Carolinas, LLC

**Table A-17**  
**Gaston Shoals Hydro Station**  
**Decommissioning Cost Summary**

	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
<b>Gaston Shoals Hydro Station</b>						
Hydro Station						
Demolition	830,000	\$ 758,000	\$ -	\$ -	\$ 1,588,000	\$ -
BOP Buildings	13,000	\$ 16,000	\$ -	\$ -	\$ 29,000	\$ -
Roads	5,000	\$ 6,000	\$ -	\$ -	\$ 11,000	\$ -
Debris	-	\$ -	\$ 5,000	\$ -	\$ 5,000	\$ -
On Site Crushing	-	\$ -	\$ 1,000	\$ -	\$ 1,000	\$ -
Grading & Seeding	-	\$ -	\$ -	\$ 69,000	\$ 69,000	\$ -
Scrap	-	\$ -	\$ -	\$ -	\$ -	\$ (294,000)
<b>Subtotal</b>	<b>\$ 848,000</b>	<b>\$ 780,000</b>	<b>\$ 6,000</b>	<b>\$ 69,000</b>	<b>\$ 1,703,000</b>	<b>\$ (294,000)</b>
Facilities Environmental						
Asbestos Removal	-	\$ -	\$ -	\$ 135,000	\$ 135,000	\$ -
Mercury & Universal Waste Disposal	-	\$ -	\$ -	\$ 13,000	\$ 13,000	\$ -
Transformer Oil Disposal	-	\$ -	\$ -	\$ 5,000	\$ 5,000	\$ -
Transformer Pad and Soil Removal	-	\$ -	\$ -	\$ 4,000	\$ 4,000	\$ -
<b>Subtotal</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 157,000</b>	<b>\$ 157,000</b>	<b>\$ -</b>
<b>Gaston Shoals Hydro Station Subtotal</b>	<b>\$ 848,000</b>	<b>\$ 780,000</b>	<b>\$ 6,000</b>	<b>\$ 226,000</b>	<b>\$ 1,860,000</b>	<b>\$ (294,000)</b>
<b>TOTAL DECOM COST (CREDIT)</b>					<b>\$ 1,860,000</b>	<b>\$ (294,000)</b>
<b>PROJECT INDIRECTS (10%)</b>					<b>\$ 186,000</b>	
<b>CONTINGENCY (20%)</b>					<b>\$ 372,000</b>	
<b>TOTAL PROJECT COST (CREDIT)</b>					<b>\$ 2,418,000</b>	<b>\$ (294,000)</b>
<b>TOTAL NET PROJECT COST (CREDIT)</b>					<b>\$ 2,124,000</b>	

Duke Energy Carolinas, LLC

**Table A-18**  
**Great Falls Hydro Station**  
**Decommissioning Cost Summary**

	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
<b>Great Falls Hydro Station</b>						
Hydro Station						
Demolition	\$ 1,639,000	\$ 1,413,000	\$ -	\$ -	\$ 3,052,000	\$ -
BOP Buildings	\$ 50,000	\$ 60,000	\$ -	\$ -	\$ 110,000	\$ -
Roads	\$ 38,000	\$ 45,000	\$ -	\$ -	\$ 83,000	\$ -
Debris	\$ -	\$ -	\$ 15,000	\$ -	\$ 15,000	\$ -
On Site Crushing	\$ -	\$ -	\$ 3,000	\$ -	\$ 3,000	\$ -
Grading & Seeding	\$ -	\$ -	\$ -	\$ 228,000	\$ 228,000	\$ -
Scrap	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (714,000)
<b>Subtotal</b>	<b>\$ 1,727,000</b>	<b>\$ 1,518,000</b>	<b>\$ 18,000</b>	<b>\$ 228,000</b>	<b>\$ 3,491,000</b>	<b>\$ (714,000)</b>
Facilities Environmental						
Asbestos Removal	\$ -	\$ -	\$ -	\$ 304,000	\$ 304,000	\$ -
Mercury & Universal Waste Disposal	\$ -	\$ -	\$ -	\$ 13,000	\$ 13,000	\$ -
Transformer Oil Disposal	\$ -	\$ -	\$ -	\$ 5,000	\$ 5,000	\$ -
Transformer Pad and Soil Removal	\$ -	\$ -	\$ -	\$ 8,000	\$ 8,000	\$ -
<b>Subtotal</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 330,000</b>	<b>\$ 330,000</b>	<b>\$ -</b>
<b>Great Falls Hydro Station Subtotal</b>	<b>\$ 1,727,000</b>	<b>\$ 1,518,000</b>	<b>\$ 18,000</b>	<b>\$ 558,000</b>	<b>\$ 3,821,000</b>	<b>\$ (714,000)</b>
<b>TOTAL DECOM COST (CREDIT)</b>					<b>\$ 3,821,000</b>	<b>\$ (714,000)</b>
<b>PROJECT INDIRECTS (10%)</b>					<b>\$ 382,000</b>	
<b>CONTINGENCY (20%)</b>					<b>\$ 764,000</b>	
<b>INVENTORY ADJUSTMENT</b>					<b>\$ 26,000</b>	<b>\$ (3,000)</b>
<b>TOTAL PROJECT COST (CREDIT)</b>					<b>\$ 4,993,000</b>	<b>\$ (717,000)</b>
<b>TOTAL NET PROJECT COST (CREDIT)</b>					<b>\$ 4,276,000</b>	

Duke Energy Carolinas, LLC

**Table A-19**  
**Jocassee**  
**Decommissioning Cost Summary**

	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
<b>Jocassee</b>						
<i>Pumped Storage</i>						
Pumped Storage Generating Equipment & Facilities	\$ 1,700,000	\$ 1,414,000	\$ -	\$ -	\$ 3,114,000	\$ -
BOP Buildings	\$ 107,000	\$ 128,000	\$ -	\$ -	\$ 235,000	\$ -
Roads	\$ 13,000	\$ 15,000	\$ -	\$ -	\$ 28,000	\$ -
Debris	\$ -	\$ -	\$ 52,000	\$ -	\$ 52,000	\$ -
On Site Crushing	\$ -	\$ -	\$ 8,000	\$ -	\$ 8,000	\$ -
Grading & Seeding	\$ -	\$ -	\$ -	\$ 75,000	\$ 75,000	\$ -
Scrap	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (7,224,000)
<b>Subtotal</b>	<b>\$ 1,820,000</b>	<b>\$ 1,557,000</b>	<b>\$ 60,000</b>	<b>\$ 75,000</b>	<b>\$ 3,512,000</b>	<b>\$ (7,224,000)</b>
<i>Facilities Environmental</i>						
Mercury & Universal Waste Disposal	\$ -	\$ -	\$ -	\$ 14,000	\$ 14,000	\$ -
Transformer Oil Disposal	\$ -	\$ -	\$ -	\$ 30,000	\$ 30,000	\$ -
Transformer Pad and Soil Removal	\$ -	\$ -	\$ -	\$ 7,000	\$ 7,000	\$ -
<b>Subtotal</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 51,000</b>	<b>\$ 51,000</b>	<b>\$ -</b>
<b>Jocassee Subtotal</b>	<b>\$ 1,820,000</b>	<b>\$ 1,557,000</b>	<b>\$ 60,000</b>	<b>\$ 126,000</b>	<b>\$ 3,563,000</b>	<b>\$ (7,224,000)</b>
<b>TOTAL DECOM COST (CREDIT)</b>					<b>\$ 3,563,000</b>	<b>\$ (7,224,000)</b>
<b>PROJECT INDIRECTS (10%)</b>					<b>\$ 356,000</b>	
<b>CONTINGENCY (20%)</b>					<b>\$ 713,000</b>	
<b>TOTAL PROJECT COST (CREDIT)</b>					<b>\$ 4,632,000</b>	<b>\$ (7,224,000)</b>
<b>TOTAL NET PROJECT COST (CREDIT)</b>					<b>\$ (2,592,000)</b>	

Duke Energy Carolinas, LLC

**Table A-20**  
**Keowee Hydro Station**  
**Decommissioning Cost Summary**

Keowee Hydro Station	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
<i>Hydro Station</i>						
Demolition	883,000	\$ 790,000	\$ -	\$ 97,000	\$ 1,770,000	\$ -
BOP Buildings	120,000	\$ 143,000	\$ -	\$ -	\$ 263,000	\$ -
Roads	4,000	\$ 5,000	\$ -	\$ -	\$ 9,000	\$ -
Debris	-	\$ -	\$ 53,000	\$ -	\$ 53,000	\$ -
On Site Crushing	-	\$ -	\$ 9,000	\$ -	\$ 9,000	\$ -
Grading & Seeding	-	\$ -	\$ -	\$ 62,000	\$ 62,000	\$ -
Scrap	-	\$ -	\$ -	\$ -	\$ -	\$ (2,871,000)
<b>Subtotal</b>	<b>\$ 1,007,000</b>	<b>\$ 938,000</b>	<b>\$ 62,000</b>	<b>\$ 159,000</b>	<b>\$ 2,166,000</b>	<b>\$ (2,871,000)</b>
<i>Facilities Environmental</i>						
Asbestos Removal	-	\$ -	\$ -	\$ 341,000	\$ 341,000	\$ -
Mercury & Universal Waste Disposal	-	\$ -	\$ -	\$ 14,000	\$ 14,000	\$ -
Transformer Oil Disposal	-	\$ -	\$ -	\$ 89,000	\$ 89,000	\$ -
Transformer Pad and Soil Removal	-	\$ -	\$ -	\$ 8,000	\$ 8,000	\$ -
<b>Subtotal</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 452,000</b>	<b>\$ 452,000</b>	<b>\$ -</b>
<b>Keowee Hydro Station Subtotal</b>	<b>\$ 1,007,000</b>	<b>\$ 938,000</b>	<b>\$ 62,000</b>	<b>\$ 611,000</b>	<b>\$ 2,618,000</b>	<b>\$ (2,871,000)</b>
<b>TOTAL DECOM COST (CREDIT)</b>					<b>\$ 2,618,000</b>	<b>\$ (2,871,000)</b>
<b>PROJECT INDIRECTS (10%)</b>					<b>\$ 262,000</b>	
<b>CONTINGENCY (20%)</b>					<b>\$ 524,000</b>	
<b>TOTAL PROJECT COST (CREDIT)</b>					<b>\$ 3,404,000</b>	<b>\$ (2,871,000)</b>
<b>TOTAL NET PROJECT COST (CREDIT)</b>					<b>\$ 533,000</b>	

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**Table A-21**  
**Lark**  
**Decommissioning Cost Summary**

	<b>Labor</b>	<b>Material and Equipment</b>	<b>Disposal</b>	<b>Environmental</b>	<b>Total Cost</b>	<b>Scrap Value</b>
<b>Lark</b>						
<i>Common</i>						
Roads	\$ 88,000	\$ 85,000	\$ -	\$ -	\$ 173,000	\$ -
All BOP Buildings	\$ 540,000	\$ 526,000	\$ -	\$ -	\$ 1,066,000	\$ -
Concrete Removal, Crushing, & Disposal	\$ -	\$ -	\$ 35,000	\$ -	\$ 35,000	\$ -
Grading & Seeding	\$ -	\$ -	\$ -	\$ 316,000	\$ 316,000	\$ -
Debris	\$ -	\$ -	\$ 15,000	\$ -	\$ 15,000	\$ -
Scrap	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (198,000)
<b>Subtotal</b>	<b>\$ 628,000</b>	<b>\$ 611,000</b>	<b>\$ 50,000</b>	<b>\$ 316,000</b>	<b>\$ 1,605,000</b>	<b>\$ (198,000)</b>
<b>Lark Subtotal</b>	<b>\$ 628,000</b>	<b>\$ 611,000</b>	<b>\$ 50,000</b>	<b>\$ 316,000</b>	<b>\$ 1,605,000</b>	<b>\$ (198,000)</b>
<b>TOTAL DECOM COST (CREDIT)</b>					<b>\$ 1,605,000</b>	<b>\$ (198,000)</b>
<b>PROJECT INDIRECTS (10%)</b>					<b>\$ 161,000</b>	
<b>CONTINGENCY (20%)</b>					<b>\$ 321,000</b>	
<b>INVENTORY ADJUSTMENT</b>					<b>\$ 62,259,000</b>	<b>\$ (6,226,000)</b>
<b>TOTAL PROJECT COST (CREDIT)</b>					<b>\$ 64,346,000</b>	<b>\$ (6,424,000)</b>
<b>TOTAL NET PROJECT COST (CREDIT)</b>					<b>\$ 57,922,000</b>	

**Table A-22**  
**Lincoln**  
**Decommissioning Cost Summary**

	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
<b>Lincoln</b>						
CTs 1-16						
CTGs	4,137,000	\$ 4,028,000			8,165,000	\$ -
Stacks	38,000	\$ 37,000			75,000	\$ -
GSU & Electrical	212,000	\$ 206,000	-	-	418,000	\$ -
On-site Concrete Crushing & Disposal	-	\$ -	79,000	-	79,000	\$ -
Debris	-	\$ -	37,000	-	37,000	\$ -
Scrap	-	\$ -	-	-	-	\$ (15,918,000)
<b>Subtotal</b>	<b>\$ 4,387,000</b>	<b>\$ 4,271,000</b>	<b>\$ 116,000</b>	<b>\$ -</b>	<b>\$ 8,774,000</b>	<b>\$ (15,918,000)</b>
<i>Common</i>						
Water Treatment Equipment and Piping	2,000	\$ 2,000		480,000	\$ 484,000	\$ -
BOP Misc.	3,000	\$ 3,000		-	6,000	\$ -
Roads	132,000	\$ 128,000	-	-	260,000	\$ -
All BOP Buildings	152,000	\$ 148,000	-	-	300,000	\$ -
Fuel Equipment	483,000	\$ 470,000	-	-	953,000	\$ -
All Other Tanks	244,000	\$ 238,000	-	-	482,000	\$ -
Transformers & Foundation	5,000	\$ 5,000	-	-	10,000	\$ -
Mercury & Universal Waste Disposal	-	\$ -	-	19,000	\$ 19,000	\$ -
Transformer Oil Disposal	-	\$ -	-	295,000	\$ 295,000	\$ -
Transformer Pad and Soil Removal	-	\$ -	-	53,000	\$ 53,000	\$ -
Soil Remediation Beneath Fuel Oil Tank	-	\$ -	-	193,000	\$ 193,000	\$ -
Fuel Oil Tank Cleaning	-	\$ -	-	79,000	\$ 79,000	\$ -
Fuel Oil Line Flushing/Cleaning	-	\$ -	-	42,000	\$ 42,000	\$ -
Concrete Removal, Crushing, & Disposal	-	\$ -	51,000	-	51,000	\$ -
Grading & Seeding	-	\$ -	-	976,000	\$ 976,000	\$ -
Debris	-	\$ -	3,000	-	3,000	\$ -
Scrap	-	\$ -	-	-	-	\$ (609,000)
<b>Subtotal</b>	<b>\$ 1,021,000</b>	<b>\$ 994,000</b>	<b>\$ 54,000</b>	<b>\$ 2,137,000</b>	<b>\$ 4,206,000</b>	<b>\$ (609,000)</b>
<b>Lincoln Subtotal</b>	<b>\$ 5,408,000</b>	<b>\$ 5,265,000</b>	<b>\$ 170,000</b>	<b>\$ 2,137,000</b>	<b>\$ 12,980,000</b>	<b>\$ (16,527,000)</b>
<b>TOTAL DECOM COST (CREDIT)</b>					<b>\$ 12,980,000</b>	<b>\$ (16,527,000)</b>
<b>PROJECT INDIRECTS (10%)</b>					<b>\$ 1,298,000</b>	
<b>CONTINGENCY (20%)</b>					<b>\$ 2,596,000</b>	
<b>INVENTORY ADJUSTMENT</b>					<b>\$ 1,761,000</b>	<b>\$ (440,000)</b>
<b>TOTAL PROJECT COST (CREDIT)</b>					<b>\$ 18,635,000</b>	<b>\$ (16,967,000)</b>
<b>TOTAL NET PROJECT COST (CREDIT)</b>					<b>\$ 1,668,000</b>	

Duke Energy Carolinas, LLC

**Table A-23**  
**Lookout Shoals Hydro Station**  
**Decommissioning Cost Summary**

Lookout Shoals Hydro Station	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
<i>Hydro Station</i>						
Hydroelectric Equipment & Facilities	667,000	\$ 637,000	\$ -	\$ -	\$ 1,304,000	\$ -
BOP Buildings	5,000	\$ 6,000	\$ -	\$ -	\$ 11,000	\$ -
Roads	8,000	\$ 9,000	\$ -	\$ -	\$ 17,000	\$ -
Debris	-	\$ -	\$ 5,000	\$ -	\$ 5,000	\$ -
On Site Crushing	-	\$ -	\$ 1,000	\$ -	\$ 1,000	\$ -
Grading & Seeding	-	\$ -	\$ -	\$ 44,000	\$ 44,000	\$ -
Scrap	-	\$ -	\$ -	\$ -	\$ -	\$ (773,000)
<b>Subtotal</b>	<b>\$ 680,000</b>	<b>\$ 652,000</b>	<b>\$ 6,000</b>	<b>\$ 44,000</b>	<b>\$ 1,382,000</b>	<b>\$ (773,000)</b>
<i>Facilities Environmental</i>						
Asbestos Removal	-	\$ -	\$ -	\$ 136,000	\$ 136,000	\$ -
Mercury & Universal Waste Disposal	-	\$ -	\$ -	\$ 13,000	\$ 13,000	\$ -
Transformer Oil Disposal	-	\$ -	\$ -	\$ 20,000	\$ 20,000	\$ -
Transformer Pad and Soil Removal	-	\$ -	\$ -	\$ 2,000	\$ 2,000	\$ -
<b>Subtotal</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 171,000</b>	<b>\$ 171,000</b>	<b>\$ -</b>
<b>Lookout Shoals Hydro Station Subtotal</b>	<b>\$ 680,000</b>	<b>\$ 652,000</b>	<b>\$ 6,000</b>	<b>\$ 215,000</b>	<b>\$ 1,553,000</b>	<b>\$ (773,000)</b>
<b>TOTAL DECOM COST (CREDIT)</b>					<b>\$ 1,553,000</b>	<b>\$ (773,000)</b>
<b>PROJECT INDIRECTS (10%)</b>					<b>\$ 155,000</b>	
<b>CONTINGENCY (20%)</b>					<b>\$ 311,000</b>	
<b>INVENTORY ADJUSTMENT</b>					<b>\$ 127,000</b>	<b>\$ (13,000)</b>
<b>TOTAL PROJECT COST (CREDIT)</b>					<b>\$ 2,146,000</b>	<b>\$ (786,000)</b>
<b>TOTAL NET PROJECT COST (CREDIT)</b>					<b>\$ 1,360,000</b>	

Duke Energy Carolinas, LLC

**Table A-24**  
**Maiden Creek**  
**Solar Decommissioning Cost Summary**

	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
<b>Maiden Creek</b>						
<i>Solar Farm</i>						
O&M Building	\$ 4,000	\$ 4,700	\$ -	\$ -	\$ 8,700	\$ -
Solar Panel Removal/Recycling	\$ 1,222,900	\$ 1,458,400	\$ 212,100	\$ -	\$ 2,893,400	\$ -
Panel Supports/Rack	\$ 3,267,500	\$ 3,896,500	\$ -	\$ -	\$ 7,164,000	\$ -
Electrical & Wiring	\$ 126,900	\$ 151,200	\$ -	\$ -	\$ 278,100	\$ -
Site Restoration	\$ 135,200	\$ 161,200	\$ -	\$ 1,443,600	\$ 1,740,000	\$ -
On-site Concrete Crushing and Removal	\$ -	\$ -	\$ 6,000	\$ -	\$ 6,000	\$ -
Debris	\$ -	\$ -	\$ 3,300	\$ -	\$ 3,300	\$ -
Scrap	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (8,677,000)
<b>Subtotal</b>	<b>\$ 4,756,500</b>	<b>\$ 5,672,000</b>	<b>\$ 221,400</b>	<b>\$ 1,443,600</b>	<b>\$ 12,093,500</b>	<b>\$ (8,677,000)</b>
<b>Maiden Creek Subtotal</b>	<b>\$ 4,756,500</b>	<b>\$ 5,672,000</b>	<b>\$ 221,400</b>	<b>\$ 1,443,600</b>	<b>\$ 12,093,500</b>	<b>\$ (8,677,000)</b>
<b>TOTAL DECOM COST (CREDIT)</b>					<b>\$ 12,093,500</b>	<b>\$ (8,677,000)</b>
<b>PROJECT INDIRECTS (10%)</b>					<b>\$ 1,209,400</b>	
<b>CONTINGENCY (20%)</b>					<b>\$ 2,418,700</b>	
<b>INVENTORY ADJUSTMENT</b>					<b>\$ 63,700</b>	<b>\$ (6,400)</b>
<b>TOTAL PROJECT COST (CREDIT)</b>					<b>\$ 15,785,300</b>	<b>\$ (8,683,400)</b>
<b>TOTAL NET PROJECT COST (CREDIT)</b>					<b>\$ 7,101,900</b>	

Duke Energy Carolinas, LLC

**Table A-25**  
**Marshall Steam Station**  
**Decommissioning Cost Summary**

	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
<b>Marshall Steam Station</b>						
<b>Unit 1</b>						
Boiler	1,391,000	\$ 1,354,000	-	-	2,745,000	\$ -
Steam Turbine & Building	1,097,000	\$ 1,068,000	-	-	2,165,000	\$ -
Precipitators	440,000	\$ 428,000	-	-	868,000	\$ -
Scrubber / FGD	219,000	\$ 213,000	-	27,000	459,000	\$ -
Stacks	124,000	\$ 121,000	-	-	245,000	\$ -
GSU & Foundation	38,000	\$ 37,000	-	-	75,000	\$ -
On-site Concrete Crushing & Disposal	-	\$ -	99,000	-	99,000	\$ -
Debris	-	\$ -	78,000	-	78,000	\$ -
Scrap	-	\$ -	-	-	-	\$ (7,259,000)
<b>Subtotal</b>	<b>\$ 3,309,000</b>	<b>\$ 3,221,000</b>	<b>\$ 177,000</b>	<b>\$ 27,000</b>	<b>\$ 6,734,000</b>	<b>\$ (7,259,000)</b>
<b>Unit 2</b>						
Boiler	1,405,000	\$ 1,368,000	-	-	2,773,000	\$ -
Steam Turbine & Building	1,097,000	\$ 1,068,000	-	-	2,165,000	\$ -
Precipitator	440,000	\$ 428,000	-	-	868,000	\$ -
Scrubber / FGD	219,000	\$ 213,000	-	27,000	459,000	\$ -
Stacks	124,000	\$ 121,000	-	-	245,000	\$ -
GSU & Foundation	38,000	\$ 37,000	-	-	75,000	\$ -
On-site Concrete Crushing & Disposal	-	\$ -	110,000	-	110,000	\$ -
Debris	-	\$ -	78,000	-	78,000	\$ -
Scrap	-	\$ -	-	-	-	\$ (6,987,000)
<b>Subtotal</b>	<b>\$ 3,323,000</b>	<b>\$ 3,235,000</b>	<b>\$ 188,000</b>	<b>\$ 27,000</b>	<b>\$ 6,773,000</b>	<b>\$ (6,987,000)</b>
<b>Unit 3</b>						
Boiler	2,239,000	\$ 2,179,000	-	-	4,418,000	\$ -
Steam Turbine & Building	1,568,000	\$ 1,527,000	-	-	3,095,000	\$ -
Precipitator	607,000	\$ 590,000	-	-	1,197,000	\$ -
SCR	808,000	\$ 787,000	-	-	1,595,000	\$ -
Scrubber / FGD	444,000	\$ 433,000	-	47,000	924,000	\$ -
Stacks	35,000	\$ 34,000	-	-	69,000	\$ -
GSU & Foundation	46,000	\$ 45,000	-	-	91,000	\$ -
On-site Concrete Crushing & Disposal	-	\$ -	131,000	-	131,000	\$ -
Debris	-	\$ -	41,000	-	41,000	\$ -
Scrap	-	\$ -	-	-	-	\$ (10,996,000)
<b>Subtotal</b>	<b>\$ 5,747,000</b>	<b>\$ 5,595,000</b>	<b>\$ 172,000</b>	<b>\$ 47,000</b>	<b>\$ 11,561,000</b>	<b>\$ (10,996,000)</b>
<b>Unit 4</b>						
Boiler	2,329,000	\$ 2,267,000	-	-	4,596,000	\$ -
Steam Turbine & Building	1,568,000	\$ 1,526,000	-	-	3,094,000	\$ -
Precipitator	607,000	\$ 590,000	-	-	1,197,000	\$ -
Scrubber / FGD	445,000	\$ 434,000	-	53,000	932,000	\$ -
Stacks	35,000	\$ 34,000	-	-	69,000	\$ -
GSU & Foundation	53,000	\$ 51,000	-	-	104,000	\$ -
On-site Concrete Crushing & Disposal	-	\$ -	131,000	-	131,000	\$ -
Debris	-	\$ -	42,000	-	42,000	\$ -
Scrap	-	\$ -	-	-	-	\$ (9,452,000)
<b>Subtotal</b>	<b>\$ 5,037,000</b>	<b>\$ 4,902,000</b>	<b>\$ 173,000</b>	<b>\$ 53,000</b>	<b>\$ 10,165,000</b>	<b>\$ (9,452,000)</b>
<b>Handling</b>						
Coal Handling Facilities	\$ 333,000	\$ 324,000	-	-	\$ 657,000	\$ -
Coal Storage Area Restoration	-	\$ -	-	-	3,158,000	\$ 3,158,000
Limestone Handling Facilities	106,000	\$ 103,000	-	-	209,000	\$ -
On-site Concrete Crushing & Disposal	-	\$ -	13,000	-	13,000	\$ -
Debris	-	\$ -	34,000	-	34,000	\$ -
Scrap	-	\$ -	-	-	-	\$ (511,000)
<b>Subtotal</b>	<b>\$ 439,000</b>	<b>\$ 427,000</b>	<b>\$ 47,000</b>	<b>\$ 3,158,000</b>	<b>\$ 4,071,000</b>	<b>\$ (511,000)</b>
<b>Common</b>						
Cooling Water Intakes and Circulating Water Pumps	\$ 212,000	\$ 207,000	-	\$ 565,000	\$ 984,000	\$ -
Roads	21,000	\$ 21,000	-	-	42,000	\$ -
All BOP Buildings	182,000	\$ 177,000	-	-	359,000	\$ -
Fuel Equipment	130,000	\$ 127,000	-	-	257,000	\$ -
All Other Tanks	11,000	\$ 11,000	-	-	22,000	\$ -
Transformers & Foundation	11,000	\$ 10,000	-	-	21,000	\$ -
Refractory Disposal	-	\$ -	-	-	27,000	\$ -
Mercury & Universal Waste Disposal	-	\$ -	-	-	63,000	\$ 63,000
Plant Wash Down & Disposal	-	\$ -	-	-	55,000	\$ 55,000
Transformer Oil Disposal	-	\$ -	-	-	247,000	\$ 247,000
Transformer Pad and Soil Removal	-	\$ -	-	-	26,000	\$ 26,000
Soil Remediation Beneath Fuel Oil Tank	-	\$ -	-	-	21,000	\$ 21,000
Fuel Oil Tank Cleaning	-	\$ -	-	-	40,000	\$ 40,000
Fuel Oil Line Flushing/Cleaning	-	\$ -	-	-	32,000	\$ 32,000
Well Closure	-	\$ -	-	-	16,000	\$ 16,000
Pond Closure	-	\$ -	-	-	89,000	\$ 89,000
Concrete Removal, Crushing, & Disposal	-	\$ -	49,000	-	49,000	\$ -
Grading & Seeding	-	\$ -	-	-	3,956,000	\$ 3,956,000
Debris	-	\$ -	3,000	-	3,000	\$ -
Scrap	-	\$ -	-	-	-	\$ (2,846,000)

Duke Energy Carolinas, LLC  
Subtotal

	\$ 567,000	\$ 553,000	\$ 52,000	\$ 5,137,000	\$ 6,309,000	\$ (2,846,000)
Marshall Steam Station Subtotal	\$ 18,422,000	\$ 17,933,000	\$ 809,000	\$ 8,449,000	\$ 45,613,000	\$ (38,051,000)
TOTAL DECOM COST (CREDIT)					\$ 45,613,000	\$ (38,051,000)
PROJECT INDIRECTS (10%)					\$ 4,561,000	
CONTINGENCY (20%)					\$ 9,123,000	
INVENTORY ADJUSTMENT					\$ 20,743,000	\$ (2,074,000)
TOTAL PROJECT COST (CREDIT)					\$ 80,040,000	\$ (40,125,000)
TOTAL NET PROJECT COST (CREDIT)					\$ 39,915,000	

**Table A-26**  
**Mill Creek**  
**Decommissioning Cost Summary**

	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
<b>Mill Creek</b>						
CTs 1-8						
CTGs	1,048,000	\$ 992,000			2,040,000	\$ -
Stacks	39,000	\$ 37,000			76,000	\$ -
GSU & Electrical	127,000	\$ 121,000	-	-	248,000	\$ -
On-site Concrete Crushing & Disposal	-	\$ -	14,000	-	14,000	\$ -
Debris	-	\$ -	15,000	-	15,000	\$ -
Scrap	-	\$ -	-	-	-	\$ (5,939,000)
<b>Subtotal</b>	<b>\$ 1,214,000</b>	<b>\$ 1,150,000</b>	<b>\$ 29,000</b>	<b>\$ -</b>	<b>\$ 2,393,000</b>	<b>\$ (5,939,000)</b>
<i>Common</i>						
BOP Misc.	48,000	\$ 46,000	-	-	94,000	\$ -
Roads	52,000	\$ 49,000	-	-	101,000	\$ -
All BOP Buildings	80,000	\$ 75,000	-	-	155,000	\$ -
Fuel Equipment	111,000	\$ 105,000	-	-	216,000	\$ -
All Other Tanks	42,000	\$ 40,000	-	-	82,000	\$ -
Mercury & Universal Waste Disposal	-	\$ -	-	-	15,000	\$ 15,000
Transformer Oil Disposal	-	\$ -	-	-	80,000	\$ 80,000
Transformer Pad and Soil Removal	-	\$ -	-	-	32,000	\$ 32,000
Soil Remediation Beneath Fuel Oil Tank	-	\$ -	-	-	221,000	\$ 221,000
Fuel Oil Tank Cleaning	-	\$ -	-	-	57,000	\$ 57,000
Fuel Oil Line Flushing/Cleaning	-	\$ -	-	-	32,000	\$ 32,000
Pond Closure	-	\$ -	-	-	74,000	\$ 74,000
Concrete Removal, Crushing, & Disposal	-	\$ -	-	13,000	-	\$ 13,000
Grading & Seeding	-	\$ -	-	-	851,000	\$ 851,000
Debris	-	\$ -	-	1,000	-	\$ 1,000
Scrap	-	\$ -	-	-	-	\$ (267,000)
<b>Subtotal</b>	<b>\$ 333,000</b>	<b>\$ 315,000</b>	<b>\$ 14,000</b>	<b>\$ 1,362,000</b>	<b>\$ 2,024,000</b>	<b>\$ (267,000)</b>
<b>Mill Creek Subtotal</b>	<b>\$ 1,547,000</b>	<b>\$ 1,465,000</b>	<b>\$ 43,000</b>	<b>\$ 1,362,000</b>	<b>\$ 4,417,000</b>	<b>\$ (6,206,000)</b>
<b>TOTAL DECOM COST (CREDIT)</b>					<b>\$ 4,417,000</b>	<b>\$ (6,206,000)</b>
<b>PROJECT INDIRECTS (10%)</b>					<b>\$ 442,000</b>	
<b>CONTINGENCY (20%)</b>					<b>\$ 883,000</b>	
<b>INVENTORY ADJUSTMENT</b>					<b>\$ 766,000</b>	<b>\$ (191,000)</b>
<b>TOTAL PROJECT COST (CREDIT)</b>					<b>\$ 6,508,000</b>	<b>\$ (6,397,000)</b>
<b>TOTAL NET PROJECT COST (CREDIT)</b>					<b>\$ 111,000</b>	

Duke Energy Carolinas, LLC

**Table A-27**  
**Mocksville Solar**  
**Solar Decommissioning Cost Summary**

	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
<b>Mocksville Solar</b>						
<i>Solar Farm</i>						
O&M Building	\$ 4,300	\$ 5,100	\$ -	\$ -	\$ 9,400	\$ -
Solar Panel Removal/Recycling	\$ 357,100	\$ 425,800	\$ 81,000	\$ -	\$ 863,900	\$ -
Panel Supports/Rack	\$ 264,100	\$ 315,000	\$ -	\$ -	\$ 579,100	\$ -
Electrical & Wiring	\$ 151,500	\$ 180,600	\$ -	\$ -	\$ 332,100	\$ -
Site Restoration	\$ 55,600	\$ 66,300	\$ -	\$ 365,100	\$ 487,000	\$ -
On-site Concrete Crushing and Removal	\$ -	\$ -	\$ 6,600	\$ -	\$ 6,600	\$ -
Debris	\$ -	\$ -	\$ 1,700	\$ -	\$ 1,700	\$ -
Scrap	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (1,099,900)
<b>Subtotal</b>	<b>\$ 832,600</b>	<b>\$ 992,800</b>	<b>\$ 89,300</b>	<b>\$ 365,100</b>	<b>\$ 2,279,800</b>	<b>\$ (1,099,900)</b>
<b>Mocksville Solar Subtotal</b>	<b>\$ 832,600</b>	<b>\$ 992,800</b>	<b>\$ 89,300</b>	<b>\$ 365,100</b>	<b>\$ 2,279,800</b>	<b>\$ (1,099,900)</b>
<b>TOTAL DECOM COST (CREDIT)</b>					<b>\$ 2,279,800</b>	<b>\$ (1,099,900)</b>
<b>PROJECT INDIRECTS (10%)</b>					<b>\$ 228,000</b>	
<b>CONTINGENCY (20%)</b>					<b>\$ 456,000</b>	
<b>TOTAL PROJECT COST (CREDIT)</b>					<b>\$ 2,963,800</b>	<b>\$ (1,099,900)</b>
<b>TOTAL NET PROJECT COST (CREDIT)</b>					<b>\$ 1,863,900</b>	

Duke Energy Carolinas, LLC

**Table A-28**  
**Monroe**  
**Solar Decommissioning Cost Summary**

	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
<b>Monroe</b>						
<i>Solar Farm</i>						
Solar Panel Removal/Recycling	\$ 1,762,100	\$ 2,101,300	\$ 444,300	\$ -	\$ 4,307,700	\$ -
Panel Supports/Rack	\$ 1,413,000	\$ 1,685,100	\$ -	\$ -	\$ 3,098,100	\$ -
Electrical & Wiring	\$ 248,000	\$ 295,700	\$ -	\$ -	\$ 543,700	\$ -
Site Restoration	\$ 84,400	\$ 100,600	\$ -	\$ 1,425,900	\$ 1,610,900	\$ -
On-site Concrete Crushing and Removal	\$ -	\$ -	\$ 4,300	\$ -	\$ 4,300	\$ -
Debris	\$ -	\$ -	\$ 5,600	\$ -	\$ 5,600	\$ -
Scrap	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (4,512,500)
<b>Subtotal</b>	<b>\$ 3,507,500</b>	<b>\$ 4,182,700</b>	<b>\$ 454,200</b>	<b>\$ 1,425,900</b>	<b>\$ 9,570,300</b>	<b>\$ (4,512,500)</b>
<b>Monroe Subtotal</b>	<b>\$ 3,507,500</b>	<b>\$ 4,182,700</b>	<b>\$ 454,200</b>	<b>\$ 1,425,900</b>	<b>\$ 9,570,300</b>	<b>\$ (4,512,500)</b>
<b>TOTAL DECOM COST (CREDIT)</b>					<b>\$ 9,570,300</b>	<b>\$ (4,512,500)</b>
<b>PROJECT INDIRECTS (10%)</b>					<b>\$ 957,000</b>	
<b>CONTINGENCY (20%)</b>					<b>\$ 1,914,100</b>	
<b>INVENTORY ADJUSTMENT</b>					<b>\$ 45,100</b>	<b>\$ (4,500)</b>
<b>TOTAL PROJECT COST (CREDIT)</b>					<b>\$ 12,486,500</b>	<b>\$ (4,517,000)</b>
<b>TOTAL NET PROJECT COST (CREDIT)</b>					<b>\$ 7,969,500</b>	

Duke Energy Carolinas, LLC

**Table A-29**  
**Mountain Island**  
**Decommissioning Cost Summary**

	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
<b>Mountain Island</b>						
<i>Hydro Station</i>						
Hydroelectric Equipment & Facilities	\$ 897,000	\$ 808,000	\$ -	\$ -	\$ 1,705,000	\$ -
BOP Buildings	\$ 7,000	\$ 8,000	\$ -	\$ -	\$ 15,000	\$ -
Roads	\$ 4,000	\$ 5,000	\$ -	\$ -	\$ 9,000	\$ -
Debris	\$ -	\$ -	\$ 5,000	\$ -	\$ 5,000	\$ -
On Site Crushing	\$ -	\$ -	\$ 1,000	\$ -	\$ 1,000	\$ -
Grading & Seeding	\$ -	\$ -	\$ -	\$ 52,000	\$ 52,000	\$ -
Scrap	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (1,310,000)
<b>Subtotal</b>	<b>\$ 908,000</b>	<b>\$ 821,000</b>	<b>\$ 6,000</b>	<b>\$ 52,000</b>	<b>\$ 1,787,000</b>	<b>\$ (1,310,000)</b>
<i>Facilities Environmental</i>						
Asbestos Removal	\$ -	\$ -	\$ -	\$ 486,000	\$ 486,000	\$ -
Mercury & Universal Waste Disposal	\$ -	\$ -	\$ -	\$ 13,000	\$ 13,000	\$ -
Transformer Oil Disposal	\$ -	\$ -	\$ -	\$ 7,000	\$ 7,000	\$ -
Transformer Pad and Soil Removal	\$ -	\$ -	\$ -	\$ 4,000	\$ 4,000	\$ -
<b>Subtotal</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 510,000</b>	<b>\$ 510,000</b>	<b>\$ -</b>
<b>Mountain Island Subtotal</b>	<b>\$ 908,000</b>	<b>\$ 821,000</b>	<b>\$ 6,000</b>	<b>\$ 562,000</b>	<b>\$ 2,297,000</b>	<b>\$ (1,310,000)</b>
<b>TOTAL DECOM COST (CREDIT)</b>					<b>\$ 2,297,000</b>	<b>\$ (1,310,000)</b>
<b>PROJECT INDIRECTS (10%)</b>					<b>\$ 230,000</b>	
<b>CONTINGENCY (20%)</b>					<b>\$ 459,000</b>	
<b>INVENTORY ADJUSTMENT</b>					<b>\$ 87,000</b>	<b>\$ (9,000)</b>
<b>TOTAL PROJECT COST (CREDIT)</b>					<b>\$ 3,073,000</b>	<b>\$ (1,319,000)</b>
<b>TOTAL NET PROJECT COST (CREDIT)</b>					<b>\$ 1,754,000</b>	

Duke Energy Carolinas, LLC

**Table A-30**  
**Nantahala Hydro Station**  
**Decommissioning Cost Summary**

	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
<b>Nantahala Hydro Station</b>						
<i>Hydro Station</i>						
Hydroelectric Equipment & Facilities	\$ 449,000	\$ 449,000	\$ -	\$ -	\$ 898,000	\$ -
BOP Buildings	\$ 48,000	\$ 57,000	\$ -	\$ -	\$ 105,000	\$ -
Roads	\$ 16,000	\$ 19,000	\$ -	\$ -	\$ 35,000	\$ -
Debris	\$ -	\$ -	\$ 30,000	\$ -	\$ 30,000	\$ -
On Site Crushing	\$ -	\$ -	\$ 3,000	\$ -	\$ 3,000	\$ -
Grading & Seeding	\$ -	\$ -	\$ -	\$ 237,000	\$ 237,000	\$ -
Scrap	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (838,000)
<b>Subtotal</b>	<b>\$ 513,000</b>	<b>\$ 525,000</b>	<b>\$ 33,000</b>	<b>\$ 237,000</b>	<b>\$ 1,308,000</b>	<b>\$ (838,000)</b>
<i>Facilities Environmental</i>						
Asbestos Removal	\$ -	\$ -	\$ -	\$ 86,000	\$ 86,000	\$ -
Mercury & Universal Waste Disposal	\$ -	\$ -	\$ -	\$ 12,000	\$ 12,000	\$ -
Transformer Oil Disposal	\$ -	\$ -	\$ -	\$ 18,000	\$ 18,000	\$ -
Transformer Pad and Soil Removal	\$ -	\$ -	\$ -	\$ 4,000	\$ 4,000	\$ -
<b>Subtotal</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 120,000</b>	<b>\$ 120,000</b>	<b>\$ -</b>
<b>Nantahala Hydro Station Subtotal</b>	<b>\$ 513,000</b>	<b>\$ 525,000</b>	<b>\$ 33,000</b>	<b>\$ 357,000</b>	<b>\$ 1,428,000</b>	<b>\$ (838,000)</b>
<b>TOTAL DECOM COST (CREDIT)</b>					<b>\$ 1,428,000</b>	<b>\$ (838,000)</b>
<b>PROJECT INDIRECTS (10%)</b>					<b>\$ 143,000</b>	
<b>CONTINGENCY (20%)</b>					<b>\$ 286,000</b>	
<b>INVENTORY ADJUSTMENT</b>					<b>\$ 51,000</b>	<b>\$ (5,000)</b>
<b>TOTAL PROJECT COST (CREDIT)</b>					<b>\$ 1,908,000</b>	<b>\$ (843,000)</b>
<b>TOTAL NET PROJECT COST (CREDIT)</b>					<b>\$ 1,065,000</b>	

Duke Energy Carolinas, LLC

**Table A-31**  
**Oxford Hydro Station**  
**Decommissioning Cost Summary**

	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
<b>Oxford Hydro Station</b>						
<i>Hydro Station</i>						
Hydroelectric Equipment & Facilities	\$ 513,000	\$ 504,000	\$ -	\$ -	\$ 1,017,000	\$ -
BOP Buildings	\$ 8,000	\$ 10,000	\$ -	\$ -	\$ 18,000	\$ -
Roads	\$ 10,000	\$ 11,000	\$ -	\$ -	\$ 21,000	\$ -
Debris	\$ -	\$ -	\$ 7,000	\$ -	\$ 7,000	\$ -
On Site Crushing	\$ -	\$ -	\$ 1,000	\$ -	\$ 1,000	\$ -
Grading & Seeding	\$ -	\$ -	\$ -	\$ 79,000	\$ 79,000	\$ -
Scrap	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (898,000)
<b>Subtotal</b>	<b>\$ 531,000</b>	<b>\$ 525,000</b>	<b>\$ 8,000</b>	<b>\$ 79,000</b>	<b>\$ 1,143,000</b>	<b>\$ (898,000)</b>
<i>Facilities Environmental</i>						
Asbestos Removal	\$ -	\$ -	\$ -	\$ 141,000	\$ 141,000	\$ -
Mercury & Universal Waste Disposal	\$ -	\$ -	\$ -	\$ 13,000	\$ 13,000	\$ -
Transformer Oil Disposal	\$ -	\$ -	\$ -	\$ 35,000	\$ 35,000	\$ -
Transformer Pad and Soil Removal	\$ -	\$ -	\$ -	\$ 4,000	\$ 4,000	\$ -
<b>Subtotal</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 193,000</b>	<b>\$ 193,000</b>	<b>\$ -</b>
<b>Oxford Hydro Station Subtotal</b>	<b>\$ 531,000</b>	<b>\$ 525,000</b>	<b>\$ 8,000</b>	<b>\$ 272,000</b>	<b>\$ 1,336,000</b>	<b>\$ (898,000)</b>
<b>TOTAL DECOM COST (CREDIT)</b>					<b>\$ 1,336,000</b>	<b>\$ (898,000)</b>
<b>PROJECT INDIRECTS (10%)</b>					<b>\$ 134,000</b>	
<b>CONTINGENCY (20%)</b>					<b>\$ 267,000</b>	
<b>INVENTORY ADJUSTMENT</b>					<b>\$ 96,000</b>	<b>\$ (10,000)</b>
<b>TOTAL PROJECT COST (CREDIT)</b>					<b>\$ 1,833,000</b>	<b>\$ (908,000)</b>
<b>TOTAL NET PROJECT COST (CREDIT)</b>					<b>\$ 925,000</b>	

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**Table A-32**  
**Queens Creek Hydro Station**  
**Decommissioning Cost Summary**

Queens Creek Hydro Station	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
<b>Hydro Station</b>						
Hydroelectric Equipment & Facilities	\$ 302,000	\$ 339,000	-	-	\$ 641,000	-
BOP Buildings	4,000	\$ 5,000	-	-	9,000	-
Debris	-	-	3,000	-	3,000	-
Grading & Seeding	-	-	-	189,000	\$ 189,000	-
Scrap	-	-	-	-	-	(197,000)
<b>Subtotal</b>	<b>\$ 306,000</b>	<b>\$ 344,000</b>	<b>\$ 3,000</b>	<b>\$ 189,000</b>	<b>\$ 842,000</b>	<b>\$ (197,000)</b>
<i>Facilities Environmental</i>						
Asbestos Removal	-	-	-	11,000	\$ 11,000	-
Mercury & Universal Waste Disposal	-	-	-	12,000	\$ 12,000	-
Transformer Oil Disposal	-	-	-	5,000	\$ 5,000	-
Transformer Pad and Soil Removal	-	-	-	1,000	\$ 1,000	-
<b>Subtotal</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 29,000</b>	<b>\$ 29,000</b>	<b>\$ -</b>
<b>Queens Creek Hydro Station Subtotal</b>	<b>\$ 306,000</b>	<b>\$ 344,000</b>	<b>\$ 3,000</b>	<b>\$ 218,000</b>	<b>\$ 871,000</b>	<b>\$ (197,000)</b>
<b>TOTAL DECOM COST (CREDIT)</b>					<b>\$ 871,000</b>	<b>\$ (197,000)</b>
<b>PROJECT INDIRECTS (10%)</b>					<b>\$ 87,000</b>	
<b>CONTINGENCY (20%)</b>					<b>\$ 174,000</b>	
<b>TOTAL PROJECT COST (CREDIT)</b>					<b>\$ 1,132,000</b>	<b>\$ (197,000)</b>
<b>TOTAL NET PROJECT COST (CREDIT)</b>					<b>\$ 935,000</b>	

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**Table A-33**  
**Rhodhiss Hydro Station**  
**Decommissioning Cost Summary**

Rhodhiss Hydro Station	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
<i>Hydro Station</i>						
Hydroelectric Equipment & Facilities	\$ 681,000	\$ 646,000	-	-	\$ 1,327,000	-
Roads	6,000	7,000	-	-	13,000	-
Debris	-	-	4,000	-	4,000	-
Grading & Seeding	-	-	-	39,000	39,000	-
Scrap	-	-	-	-	-	(935,000)
<b>Subtotal</b>	<b>\$ 687,000</b>	<b>\$ 653,000</b>	<b>\$ 4,000</b>	<b>\$ 39,000</b>	<b>\$ 1,383,000</b>	<b>\$ (935,000)</b>
<i>Facilities Environmental</i>						
Asbestos Removal	-	-	-	233,000	\$ 233,000	-
Mercury & Universal Waste Disposal	-	-	-	13,000	\$ 13,000	-
Transformer Oil Disposal	-	-	-	22,000	\$ 22,000	-
Transformer Pad and Soil Removal	-	-	-	3,000	\$ 3,000	-
<b>Subtotal</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 271,000</b>	<b>\$ 271,000</b>	<b>\$ -</b>
<b>Rhodhiss Hydro Station Subtotal</b>	<b>\$ 687,000</b>	<b>\$ 653,000</b>	<b>\$ 4,000</b>	<b>\$ 310,000</b>	<b>\$ 1,654,000</b>	<b>\$ (935,000)</b>
<b>TOTAL DECOM COST (CREDIT)</b>					<b>\$ 1,654,000</b>	<b>\$ (935,000)</b>
<b>PROJECT INDIRECTS (10%)</b>					<b>\$ 165,000</b>	
<b>CONTINGENCY (20%)</b>					<b>\$ 331,000</b>	
<b>INVENTORY ADJUSTMENT</b>					<b>\$ 111,000</b>	<b>\$ (11,000)</b>
<b>TOTAL PROJECT COST (CREDIT)</b>					<b>\$ 2,261,000</b>	<b>\$ (946,000)</b>
<b>TOTAL NET PROJECT COST (CREDIT)</b>					<b>\$ 1,315,000</b>	

**Table A-34**  
**Rockingham**  
**Decommissioning Cost Summary**

	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
<b>Rockingham</b>						
CTs 1-5						
CTGs	1,348,000	\$ 1,276,000			2,624,000	\$ -
Stacks	30,000	\$ 28,000			58,000	\$ -
GSU & Electrical	198,000	\$ 187,000			385,000	\$ -
On-site Concrete Crushing & Disposal	-	\$ -	28,000		28,000	\$ -
Debris	-	\$ -	23,000		23,000	\$ -
Scrap	-	\$ -	-		-	\$ (6,190,000)
<b>Subtotal</b>	<b>\$ 1,576,000</b>	<b>\$ 1,491,000</b>	<b>\$ 51,000</b>	<b>\$ -</b>	<b>\$ 3,118,000</b>	<b>\$ (6,190,000)</b>
<i>Common</i>						
BOP Misc.	13,000	\$ 13,000			26,000	\$ -
Roads	19,000	\$ 18,000			37,000	\$ -
All BOP Buildings	44,000	\$ 41,000			85,000	\$ -
Fuel Equipment	25,000	\$ 24,000			49,000	\$ -
All Other Tanks	33,000	\$ 31,000			64,000	\$ -
Mercury & Universal Waste Disposal	-	\$ -	-	14,000	\$ 14,000	\$ -
Transformer Oil Disposal	-	\$ -	-	256,000	\$ 256,000	\$ -
Transformer Pad and Soil Removal	-	\$ -	-	56,000	\$ 56,000	\$ -
Soil Remediation Beneath Fuel Oil Tank	-	\$ -	-	196,000	\$ 196,000	\$ -
Fuel Oil Tank Cleaning	-	\$ -	-	69,000	\$ 69,000	\$ -
Fuel Oil Line Flushing/Cleaning	-	\$ -	-	14,000	\$ 14,000	\$ -
Concrete Removal, Crushing, & Disposal	-	\$ -	3,000	-	3,000	\$ -
Grading & Seeding	-	\$ -	-	547,000	\$ 547,000	\$ -
Debris	-	\$ -	1,000	-	1,000	\$ -
Scrap	-	\$ -	-	-	-	\$ (157,000)
<b>Subtotal</b>	<b>\$ 134,000</b>	<b>\$ 127,000</b>	<b>\$ 4,000</b>	<b>\$ 1,152,000</b>	<b>\$ 1,417,000</b>	<b>\$ (157,000)</b>
<b>Rockingham Subtotal</b>	<b>\$ 1,710,000</b>	<b>\$ 1,618,000</b>	<b>\$ 55,000</b>	<b>\$ 1,152,000</b>	<b>\$ 4,535,000</b>	<b>\$ (6,347,000)</b>
<b>TOTAL DECOM COST (CREDIT)</b>					<b>\$ 4,535,000</b>	<b>\$ (6,347,000)</b>
<b>PROJECT INDIRECTS (10%)</b>					<b>\$ 454,000</b>	
<b>CONTINGENCY (20%)</b>					<b>\$ 907,000</b>	
<b>INVENTORY ADJUSTMENT</b>					<b>\$ 1,689,000</b>	<b>\$ (422,000)</b>
<b>TOTAL PROJECT COST (CREDIT)</b>					<b>\$ 7,585,000</b>	<b>\$ (6,769,000)</b>
<b>TOTAL NET PROJECT COST (CREDIT)</b>					<b>\$ 816,000</b>	

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**Table A-35**  
**Rocky Creek Hydro Station**  
**Decommissioning Cost Summary**

	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
<b>Rocky Creek Hydro Station</b>						
<i>Hydro Station</i>						
Hydroelectric Equipment & Facilities	\$ 1,647,000	\$ 1,422,000	\$ -	\$ -	\$ 3,069,000	\$ -
BOP Buildings	\$ 20,000	\$ 24,000	\$ -	\$ -	\$ 44,000	\$ -
Roads	\$ 5,000	\$ 6,000	\$ -	\$ -	\$ 11,000	\$ -
Debris	\$ -	\$ -	\$ 6,000	\$ -	\$ 6,000	\$ -
On Site Crushing	\$ -	\$ -	\$ 1,000	\$ -	\$ 1,000	\$ -
Grading & Seeding	\$ -	\$ -	\$ -	\$ 38,000	\$ 38,000	\$ -
Scrap	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (1,003,000)
<b>Subtotal</b>	<b>\$ 1,672,000</b>	<b>\$ 1,452,000</b>	<b>\$ 7,000</b>	<b>\$ 38,000</b>	<b>\$ 3,169,000</b>	<b>\$ (1,003,000)</b>
<i>Facilities Environmental</i>						
Asbestos Removal	\$ -	\$ -	\$ -	\$ 215,000	\$ 215,000	\$ -
Mercury & Universal Waste Disposal	\$ -	\$ -	\$ -	\$ 13,000	\$ 13,000	\$ -
Transformer Oil Disposal	\$ -	\$ -	\$ -	\$ 10,000	\$ 10,000	\$ -
Transformer Pad and Soil Removal	\$ -	\$ -	\$ -	\$ 5,000	\$ 5,000	\$ -
<b>Subtotal</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 243,000</b>	<b>\$ 243,000</b>	<b>\$ -</b>
<b>Rocky Creek Hydro Station Subtotal</b>	<b>\$ 1,672,000</b>	<b>\$ 1,452,000</b>	<b>\$ 7,000</b>	<b>\$ 281,000</b>	<b>\$ 3,412,000</b>	<b>\$ (1,003,000)</b>
<b>TOTAL DECOM COST (CREDIT)</b>					<b>\$ 3,412,000</b>	<b>\$ (1,003,000)</b>
<b>PROJECT INDIRECTS (10%)</b>					<b>\$ 341,000</b>	
<b>CONTINGENCY (20%)</b>					<b>\$ 682,000</b>	
<b>INVENTORY ADJUSTMENT</b>					<b>\$ 9,000</b>	<b>\$ (1,000)</b>
<b>TOTAL PROJECT COST (CREDIT)</b>					<b>\$ 4,444,000</b>	<b>\$ (1,004,000)</b>
<b>TOTAL NET PROJECT COST (CREDIT)</b>					<b>\$ 3,440,000</b>	

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**Table A-36**  
**Tennessee Creek Hydro Station**  
**Decommissioning Cost Summary**

	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
<b>Tennessee Creek Hydro Station</b>						
<i>Hydro Station</i>						
Hydroelectric Equipment & Facilities	\$ 348,000	\$ 358,000	-	\$ 794,000	\$ 1,500,000	-
BOP Buildings	\$ 16,000	\$ 19,000	-	-	\$ 35,000	-
Debris	-	-	\$ 12,000	-	\$ 12,000	-
On Site Crushing	-	-	-	\$ 1,000	-	\$ 1,000
Grading & Seeding	-	-	-	-	\$ 11,000	-
Scrap	-	-	-	-	\$ 11,000	-
<b>Subtotal</b>	<b>\$ 364,000</b>	<b>\$ 377,000</b>	<b>\$ 13,000</b>	<b>\$ 805,000</b>	<b>\$ 1,559,000</b>	<b>\$ (386,000)</b>
<i>Facilities Environmental</i>						
Asbestos Removal	-	-	-	\$ 28,000	\$ 28,000	-
Mercury & Universal Waste Disposal	-	-	-	\$ 12,000	\$ 12,000	-
Transformer Pad and Soil Removal	-	-	-	\$ 2,000	\$ 2,000	-
<b>Subtotal</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 42,000</b>	<b>\$ 42,000</b>	<b>\$ -</b>
<b>Tennessee Creek Hydro Station Subtotal</b>	<b>\$ 364,000</b>	<b>\$ 377,000</b>	<b>\$ 13,000</b>	<b>\$ 847,000</b>	<b>\$ 1,601,000</b>	<b>\$ (386,000)</b>
<b>TOTAL DECOM COST (CREDIT)</b>					<b>\$ 1,601,000</b>	<b>\$ (386,000)</b>
<b>PROJECT INDIRECTS (10%)</b>					<b>\$ 160,000</b>	
<b>CONTINGENCY (20%)</b>					<b>\$ 320,000</b>	
<b>TOTAL PROJECT COST (CREDIT)</b>					<b>\$ 2,081,000</b>	<b>\$ (386,000)</b>
<b>TOTAL NET PROJECT COST (CREDIT)</b>					<b>\$ 1,695,000</b>	

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**Table A-37**  
**Thorpe Hydro Station**  
**Decommissioning Cost Summary**

	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
<b>Thorpe Hydro Station</b>						
<i>Hydro Station</i>						
Hydroelectric Equipment & Facilities	\$ 370,000	\$ 378,000	-	\$ 1,527,000	\$ 2,275,000	-
BOP Buildings	\$ 72,000	\$ 86,000	-	-	\$ 158,000	-
Debris	-	-	\$ 42,000	-	\$ 42,000	-
On Site Crushing	-	-	-	\$ 5,000	-	\$ 5,000
Grading & Seeding	-	-	-	-	\$ 93,000	-
Scrap	-	-	-	-	-	-
<b>Subtotal</b>	<b>\$ 442,000</b>	<b>\$ 464,000</b>	<b>\$ 47,000</b>	<b>\$ 1,620,000</b>	<b>\$ 2,573,000</b>	<b>\$ (527,000)</b>
<i>Facilities Environmental</i>						
Asbestos Removal	-	-	-	\$ 141,000	\$ 141,000	-
Mercury & Universal Waste Disposal	-	-	-	\$ 12,000	\$ 12,000	-
Transformer Oil Disposal	-	-	-	\$ 15,000	\$ 15,000	-
Transformer Pad and Soil Removal	-	-	-	\$ 4,000	\$ 4,000	-
<b>Subtotal</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 172,000</b>	<b>\$ 172,000</b>	<b>\$ -</b>
<b>Thorpe Hydro Station Subtotal</b>	<b>\$ 442,000</b>	<b>\$ 464,000</b>	<b>\$ 47,000</b>	<b>\$ 1,792,000</b>	<b>\$ 2,745,000</b>	<b>\$ (527,000)</b>
<b>TOTAL DECOM COST (CREDIT)</b>					<b>\$ 2,745,000</b>	<b>\$ (527,000)</b>
<b>PROJECT INDIRECTS (10%)</b>					<b>\$ 275,000</b>	
<b>CONTINGENCY (20%)</b>					<b>\$ 549,000</b>	
<b>TOTAL PROJECT COST (CREDIT)</b>					<b>\$ 3,569,000</b>	<b>\$ (527,000)</b>
<b>TOTAL NET PROJECT COST (CREDIT)</b>					<b>\$ 3,042,000</b>	

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**Table A-38**  
**Tuckasegee**  
**Decommissioning Cost Summary**

	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
<b>Tuckasegee</b>						
<i>Hydro Station</i>						
Hydroelectric Equipment & Facilities	254,000	\$ 281,000	\$ -	\$ 859,000	\$ 1,394,000	\$ -
BOP Buildings	8,000	\$ 10,000	\$ -	\$ -	\$ 18,000	\$ -
Debris	-	\$ -	\$ 8,000	\$ -	\$ 8,000	\$ -
On Site Crushing	-	\$ -	\$ 1,000	\$ -	\$ 1,000	\$ -
Grading & Seeding	-	\$ -	\$ -	\$ 25,000	\$ 25,000	\$ -
Scrap	-	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Subtotal</b>	<b>\$ 262,000</b>	<b>\$ 291,000</b>	<b>\$ 9,000</b>	<b>\$ 884,000</b>	<b>\$ 1,446,000</b>	<b>\$ (154,000)</b>
<i>Facilities Environmental</i>						
Asbestos Removal	-	\$ -	\$ -	\$ 20,000	\$ 20,000	\$ -
Mercury & Universal Waste Disposal	-	\$ -	\$ -	\$ 12,000	\$ 12,000	\$ -
Transformer Oil Disposal	-	\$ -	\$ -	\$ 15,000	\$ 15,000	\$ -
Transformer Pad and Soil Removal	-	\$ -	\$ -	\$ 4,000	\$ 4,000	\$ -
<b>Subtotal</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 51,000</b>	<b>\$ 51,000</b>	<b>\$ -</b>
<b>Tuckasegee Subtotal</b>	<b>\$ 262,000</b>	<b>\$ 291,000</b>	<b>\$ 9,000</b>	<b>\$ 935,000</b>	<b>\$ 1,497,000</b>	<b>\$ (154,000)</b>
<b>TOTAL DECOM COST (CREDIT)</b>					<b>\$ 1,497,000</b>	<b>\$ (154,000)</b>
<b>PROJECT INDIRECTS (5%)</b>					<b>\$ 75,000</b>	
<b>CONTINGENCY (20%)</b>					<b>\$ 299,000</b>	
<b>TOTAL PROJECT COST (CREDIT)</b>					<b>\$ 1,871,000</b>	<b>\$ (154,000)</b>
<b>TOTAL NET PROJECT COST (CREDIT)</b>					<b>\$ 1,717,000</b>	

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**Table A-39**  
**Wateree**  
**Decommissioning Cost Summary**

Wateree	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
<i>Hydro Station</i>						
Hydroelectric Equipment & Facilities	\$ 1,229,000	\$ 978,000	-	-	\$ 2,207,000	-
Roads	\$ 13,000	\$ 15,000	-	-	\$ 28,000	-
Debris	-	-	8,000	-	8,000	-
On Site Crushing	-	-	1,000	-	1,000	-
Grading & Seeding	-	-	-	73,000	73,000	-
Scrap	-	-	-	-	-	(1,690,000)
<b>Subtotal</b>	<b>\$ 1,242,000</b>	<b>\$ 993,000</b>	<b>\$ 9,000</b>	<b>\$ 73,000</b>	<b>\$ 2,317,000</b>	<b>\$ (1,690,000)</b>
<i>Facilities Environmental</i>						
Asbestos Removal	-	-	-	273,000	\$ 273,000	-
Mercury & Universal Waste Disposal	-	-	-	15,000	\$ 15,000	-
Transformer Oil Disposal	-	-	-	16,000	\$ 16,000	-
Transformer Pad and Soil Removal	-	-	-	9,000	\$ 9,000	-
<b>Subtotal</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 313,000</b>	<b>\$ 313,000</b>	<b>\$ -</b>
<b>Wateree Subtotal</b>	<b>\$ 1,242,000</b>	<b>\$ 993,000</b>	<b>\$ 9,000</b>	<b>\$ 386,000</b>	<b>\$ 2,630,000</b>	<b>\$ (1,690,000)</b>
<b>TOTAL DECOM COST (CREDIT)</b>					<b>\$ 2,630,000</b>	<b>\$ (1,690,000)</b>
<b>PROJECT INDIRECTS (10%)</b>					<b>\$ 263,000</b>	
<b>CONTINGENCY (20%)</b>					<b>\$ 526,000</b>	
<b>INVENTORY ADJUSTMENT</b>					<b>\$ 302,000</b>	<b>\$ (30,000)</b>
<b>TOTAL PROJECT COST (CREDIT)</b>					<b>\$ 3,721,000</b>	<b>\$ (1,720,000)</b>
<b>TOTAL NET PROJECT COST (CREDIT)</b>					<b>\$ 2,001,000</b>	

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**Table A-40**  
**Woodleaf Solar**  
**Solar Decommissioning Cost Summary**

	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
<b>Woodleaf Solar</b>						
<i>Solar Farm</i>						
Solar Panel Removal/Recycling	\$ 149,500	\$ 178,300	\$ 26,700	\$ -	\$ 354,500	\$ -
Panel Supports/Rack	\$ 131,400	\$ 156,700	\$ -	\$ -	\$ 288,100	\$ -
Electrical & Wiring	\$ 24,300	\$ 28,800	\$ -	\$ -	\$ 53,100	\$ -
Site Restoration	\$ 26,000	\$ 31,000	\$ -	\$ 237,200	\$ 294,200	\$ -
On-site Concrete Crushing and Removal	\$ -	\$ -	\$ 1,400	\$ -	\$ 1,400	\$ -
Debris	\$ -	\$ -	\$ 300	\$ -	\$ 300	\$ -
Scrap	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (407,500)
<b>Subtotal</b>	<b>\$ 331,200</b>	<b>\$ 394,800</b>	<b>\$ 28,400</b>	<b>\$ 237,200</b>	<b>\$ 991,600</b>	<b>\$ (407,500)</b>
<b>Woodleaf Solar Subtotal</b>	<b>\$ 331,200</b>	<b>\$ 394,800</b>	<b>\$ 28,400</b>	<b>\$ 237,200</b>	<b>\$ 991,600</b>	<b>\$ (407,500)</b>
<b>TOTAL DECOM COST (CREDIT)</b>					<b>\$ 991,600</b>	<b>\$ (407,500)</b>
<b>PROJECT INDIRECTS (10%)</b>					<b>\$ 99,200</b>	
<b>CONTINGENCY (20%)</b>					<b>\$ 198,300</b>	
<b>INVENTORY ADJUSTMENT</b>					<b>\$ 9,700</b>	<b>\$ (1,000)</b>
<b>TOTAL PROJECT COST (CREDIT)</b>					<b>\$ 1,298,800</b>	<b>\$ (408,500)</b>
<b>TOTAL NET PROJECT COST (CREDIT)</b>					<b>\$ 890,300</b>	

**Table A-41**  
**W.S. Lee CT**  
**Decommissioning Cost Summary**

	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
<b>W.S. Lee CT</b>						
CTs 7 & 8						
CTGs	195,000	\$ 190,000			385,000	\$ -
Stacks	10,000	\$ 10,000			20,000	\$ -
GSU & Electrical	42,000	\$ 41,000	-	-	83,000	\$ -
On-site Concrete Crushing & Disposal	-	\$ -	6,000	-	6,000	\$ -
Debris	-	\$ -	3,000	-	3,000	\$ -
Scrap	-	\$ -	-	-	-	\$ (853,000)
<b>Subtotal</b>	<b>\$ 247,000</b>	<b>\$ 241,000</b>	<b>\$ 9,000</b>	<b>\$ -</b>	<b>\$ 497,000</b>	<b>\$ (853,000)</b>
<i>Common</i>						
BOP Misc.	14,000	\$ 14,000	-	-	28,000	\$ -
Roads	14,000	\$ 13,000	-	-	27,000	\$ -
All BOP Buildings	92,000	\$ 89,000	-	-	181,000	\$ -
Fuel Equipment	53,000	\$ 51,000	-	-	104,000	\$ -
All Other Tanks	30,000	\$ 29,000	-	-	59,000	\$ -
Mercury & Universal Waste Disposal	-	\$ -	-	-	16,000	\$ -
Transformer Oil Disposal	-	\$ -	-	-	32,000	\$ -
Transformer Pad and Soil Removal	-	\$ -	-	-	15,000	\$ -
Soil Remediation Beneath Fuel Oil Tank	-	\$ -	-	-	233,000	\$ -
Fuel Oil Tank Cleaning	-	\$ -	-	-	25,000	\$ -
Fuel Oil Line Flushing/Cleaning	-	\$ -	-	-	49,000	\$ -
Concrete Removal, Crushing, & Disposal	-	\$ -	7,000	-	7,000	\$ -
Grading & Seeding	-	\$ -	-	-	148,000	\$ -
Debris	-	\$ -	1,000	-	1,000	\$ -
Scrap	-	\$ -	-	-	-	\$ (209,000)
<b>Subtotal</b>	<b>\$ 203,000</b>	<b>\$ 196,000</b>	<b>\$ 8,000</b>	<b>\$ 518,000</b>	<b>\$ 925,000</b>	<b>\$ (209,000)</b>
<b>W.S. Lee CT Subtotal</b>	<b>\$ 450,000</b>	<b>\$ 437,000</b>	<b>\$ 17,000</b>	<b>\$ 518,000</b>	<b>\$ 1,422,000</b>	<b>\$ (1,062,000)</b>
<b>TOTAL DECOM COST (CREDIT)</b>					<b>\$ 1,422,000</b>	<b>\$ (1,062,000)</b>
<b>PROJECT INDIRECTS (10%)</b>					<b>\$ 142,000</b>	
<b>CONTINGENCY (20%)</b>					<b>\$ 284,000</b>	
<b>TOTAL PROJECT COST (CREDIT)</b>					<b>\$ 1,848,000</b>	<b>\$ (1,062,000)</b>
<b>TOTAL NET PROJECT COST (CREDIT)</b>					<b>\$ 786,000</b>	

**Table A-42**  
**W.S. Lee Steam**  
**Decommissioning Cost Summary**

	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
<b>W.S. Lee Steam</b>						
<i>Unit 3</i>						
Asbestos Removal	-	\$ 1,014,000	-	\$ 2,375,000	\$ 2,375,000	\$ -
Boiler	1,041,000	\$ 590,000	-	-	\$ 2,055,000	\$ -
Steam Turbine & Building	606,000	\$ 347,000	-	-	\$ 1,196,000	\$ -
Precipitators	356,000	\$ 186,000	-	-	\$ 703,000	\$ -
Cooling Towers & Basin	191,000	\$ 26,000	-	-	\$ 377,000	\$ -
Stacks	26,000	\$ 58,000	-	-	\$ 52,000	\$ -
GSU & Electrical	59,000	\$ -	-	-	\$ 117,000	\$ -
On-site Concrete Crushing & Disposal	-	\$ 57,000	-	-	\$ 57,000	\$ -
Debris	-	\$ 86,000	-	-	\$ 86,000	\$ -
Scrap	-	\$ -	-	-	\$ -	\$ (4,496,000)
<b>Subtotal</b>	<b>\$ 2,279,000</b>	<b>\$ 2,221,000</b>	<b>\$ 143,000</b>	<b>\$ 2,375,000</b>	<b>\$ 7,018,000</b>	<b>\$ (4,496,000)</b>
<i>Common</i>						
Cooling Water Intakes and Circulating Water Pumps	\$ 19,000	\$ 18,000	-	\$ 147,000	\$ 184,000	\$ -
Roads	27,000	\$ 27,000	-	-	\$ 54,000	\$ -
All BOP Buildings	60,000	\$ 59,000	-	-	\$ 119,000	\$ -
Fuel Equipment	6,000	\$ 6,000	-	-	\$ 12,000	\$ -
All Other Tanks	36,000	\$ 35,000	-	-	\$ 71,000	\$ -
Refractory Disposal	-	\$ -	-	-	\$ 15,000	\$ 15,000
Mercury & Universal Waste Disposal	-	\$ -	-	-	\$ 23,000	\$ 23,000
Plant Wash Down & Disposal	-	\$ -	-	-	\$ 59,000	\$ 59,000
Transformer Oil Disposal	-	\$ -	-	-	\$ 81,000	\$ 81,000
Transformer Pad and Soil Removal	-	\$ -	-	-	\$ 7,000	\$ 7,000
Pond Closure	-	\$ -	-	-	\$ 1,098,000	\$ 1,098,000
Low Head Dam Removal	-	\$ -	-	-	\$ 950,000	\$ 950,000
Concrete Removal, Crushing, & Disposal	-	\$ -	-	\$ 4,000	-	\$ 4,000
Grading & Seeding	-	\$ -	-	-	\$ 876,000	\$ 876,000
Debris	-	\$ 8,000	-	-	-	\$ 8,000
Scrap	-	\$ -	-	-	-	\$ (118,000)
<b>Subtotal</b>	<b>\$ 148,000</b>	<b>\$ 145,000</b>	<b>\$ 12,000</b>	<b>\$ 3,256,000</b>	<b>\$ 3,561,000</b>	<b>\$ (118,000)</b>
<b>W.S. Lee Steam Subtotal</b>	<b>\$ 2,427,000</b>	<b>\$ 2,366,000</b>	<b>\$ 155,000</b>	<b>\$ 5,631,000</b>	<b>\$ 10,579,000</b>	<b>\$ (4,614,000)</b>
<b>TOTAL DECOM COST (CREDIT)</b>					<b>\$ 10,579,000</b>	<b>\$ (4,614,000)</b>
<b>PROJECT INDIRECTS (10%)</b>					<b>\$ 1,058,000</b>	
<b>CONTINGENCY (20%)</b>					<b>\$ 2,116,000</b>	
<b>INVENTORY ADJUSTMENT</b>					<b>\$ 1,652,000</b>	<b>\$ (165,000)</b>
<b>TOTAL PROJECT COST (CREDIT)</b>					<b>\$ 15,405,000</b>	<b>\$ (4,779,000)</b>
<b>TOTAL NET PROJECT COST (CREDIT)</b>					<b>\$ 10,626,000</b>	

**Table A-43**  
**W.S. Lee CC**  
**Decommissioning Cost Summary**

W.S. Lee CC	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
<b>Unit 1</b>						
Auxiliary Boiler	40,000	\$ 39,000	-	-	\$ 79,000	\$ -
CTGs and HRSGs	2,604,000	\$ 2,535,000	-	-	\$ 5,139,000	\$ -
Steam Turbine & Building	939,000	\$ 914,000	-	-	\$ 1,853,000	\$ -
SCR	40,000	\$ 39,000	-	-	\$ 79,000	\$ -
Cooling Towers & Basin	390,000	\$ 380,000	-	-	\$ 770,000	\$ -
Stacks	70,000	\$ 68,000	-	-	\$ 138,000	\$ -
Cooling Water Intakes and Circulating Water Pumps	22,000	\$ 21,000	-	-	\$ 43,000	\$ -
GSU & Foundation	134,000	\$ 130,000	-	-	\$ 264,000	\$ -
On-site Concrete Crushing & Disposal	-	\$ -	123,000	-	\$ 123,000	\$ -
Debris	-	\$ -	32,000	-	\$ 32,000	\$ -
Scrap	-	\$ -	-	-	\$ -	\$ (8,146,000)
<b>Subtotal</b>	<b>\$ 4,239,000</b>	<b>\$ 4,126,000</b>	<b>\$ 155,000</b>	<b>\$ -</b>	<b>\$ 8,520,000</b>	<b>\$ (8,146,000)</b>
<b>Common</b>						
Cooling Water Intakes and Circulating Water Pumps	\$ 56,000	\$ 54,000	\$ -	\$ 139,000	\$ 249,000	\$ -
BOP Misc.	\$ 15,000	\$ 15,000	\$ -	\$ -	\$ 30,000	\$ -
Roads	\$ 53,000	\$ 51,000	\$ -	\$ -	\$ 104,000	\$ -
All BOP Buildings	\$ 145,000	\$ 141,000	\$ -	\$ -	\$ 286,000	\$ -
Fuel Equipment	\$ 5,000	\$ 5,000	\$ -	\$ -	\$ 10,000	\$ -
All Other Tanks	\$ 73,000	\$ 71,000	\$ -	\$ -	\$ 144,000	\$ -
Mercury & Universal Waste Disposal	\$ -	\$ -	\$ -	\$ 23,000	\$ 23,000	\$ -
Transformer Oil Disposal	\$ -	\$ -	\$ -	\$ 72,000	\$ 72,000	\$ -
Transformer Pad and Soil Removal	\$ -	\$ -	\$ -	\$ 42,000	\$ 42,000	\$ -
Concrete Removal, Crushing, & Disposal	\$ -	\$ -	\$ 13,000	\$ -	\$ 13,000	\$ -
Grading & Seeding	\$ -	\$ -	\$ -	\$ 1,073,000	\$ 1,073,000	\$ -
Scrap	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (282,000)
<b>Subtotal</b>	<b>\$ 347,000</b>	<b>\$ 337,000</b>	<b>\$ 13,000</b>	<b>\$ 1,349,000</b>	<b>\$ 2,046,000</b>	<b>\$ (282,000)</b>
<b>W.S. Lee CC Subtotal</b>	<b>\$ 4,586,000</b>	<b>\$ 4,463,000</b>	<b>\$ 168,000</b>	<b>\$ 1,349,000</b>	<b>\$ 10,566,000</b>	<b>\$ (8,428,000)</b>
<b>TOTAL DECOM COST (CREDIT)</b>					<b>\$ 10,566,000</b>	<b>\$ (8,428,000)</b>
<b>PROJECT INDIRECTS (10%)</b>					<b>\$ 1,057,000</b>	
<b>CONTINGENCY (20%)</b>					<b>\$ 2,113,000</b>	
<b>INVENTORY ADJUSTMENT</b>					<b>\$ 4,411,000</b>	<b>\$ (441,000)</b>
<b>TOTAL PROJECT COST (CREDIT)</b>					<b>\$ 18,147,000</b>	<b>\$ (8,869,000)</b>
<b>TOTAL NET PROJECT COST (CREDIT)</b>					<b>\$ 9,278,000</b>	

Duke Energy Carolinas, LLC

**Table A-44**  
**Wylie**  
**Decommissioning Cost Summary**

<b>Wylie</b>	<b>Labor</b>	<b>Material and Equipment</b>	<b>Disposal</b>	<b>Environmental</b>	<b>Total Cost</b>	<b>Scrap Value</b>
<i>Hydro Station</i>						
Hydroelectric Equipment & Facilities	\$ 917,000	\$ 811,000	\$ -	\$ -	\$ 1,728,000	\$ -
BOP Buildings	\$ 7,000	\$ 8,000	\$ -	\$ -	\$ 15,000	\$ -
Roads	\$ 27,000	\$ 32,000	\$ -	\$ -	\$ 59,000	\$ -
Debris	\$ -	\$ -	\$ 7,000	\$ -	\$ 7,000	\$ -
On Site Crushing	\$ -	\$ -	\$ 1,000	\$ -	\$ 1,000	\$ -
Grading & Seeding	\$ -	\$ -	\$ -	\$ 87,000	\$ 87,000	\$ -
Scrap	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (1,405,000)
<b>Subtotal</b>	<b>\$ 951,000</b>	<b>\$ 851,000</b>	<b>\$ 8,000</b>	<b>\$ 87,000</b>	<b>\$ 1,897,000</b>	<b>\$ (1,405,000)</b>
<i>Facilities Environmental</i>						
Asbestos Removal	\$ -	\$ -	\$ -	\$ 403,000	\$ 403,000	\$ -
Mercury & Universal Waste Disposal	\$ -	\$ -	\$ -	\$ 13,000	\$ 13,000	\$ -
Transformer Oil Disposal	\$ -	\$ -	\$ -	\$ 7,000	\$ 7,000	\$ -
Transformer Pad and Soil Removal	\$ -	\$ -	\$ -	\$ 6,000	\$ 6,000	\$ -
<b>Subtotal</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 429,000</b>	<b>\$ 429,000</b>	<b>\$ -</b>
<b>Wylie Subtotal</b>	<b>\$ 951,000</b>	<b>\$ 851,000</b>	<b>\$ 8,000</b>	<b>\$ 516,000</b>	<b>\$ 2,326,000</b>	<b>\$ (1,405,000)</b>
<b>TOTAL DECOM COST (CREDIT)</b>					<b>\$ 2,326,000</b>	<b>\$ (1,405,000)</b>
<b>PROJECT INDIRECTS (10%)</b>					<b>\$ 233,000</b>	
<b>CONTINGENCY (20%)</b>					<b>\$ 465,000</b>	
<b>INVENTORY ADJUSTMENT</b>					<b>\$ 113,000</b>	<b>\$ (11,000)</b>
<b>TOTAL PROJECT COST (CREDIT)</b>					<b>\$ 3,137,000</b>	<b>\$ (1,416,000)</b>
<b>TOTAL NET PROJECT COST (CREDIT)</b>					<b>\$ 1,721,000</b>	

**APPENDIX B - PLANT AERIALS**

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99 Islands Hydro Station  
Blacksburg, SC  
Duke Energy Carolinas

Duke Energy Carolinas, LLC

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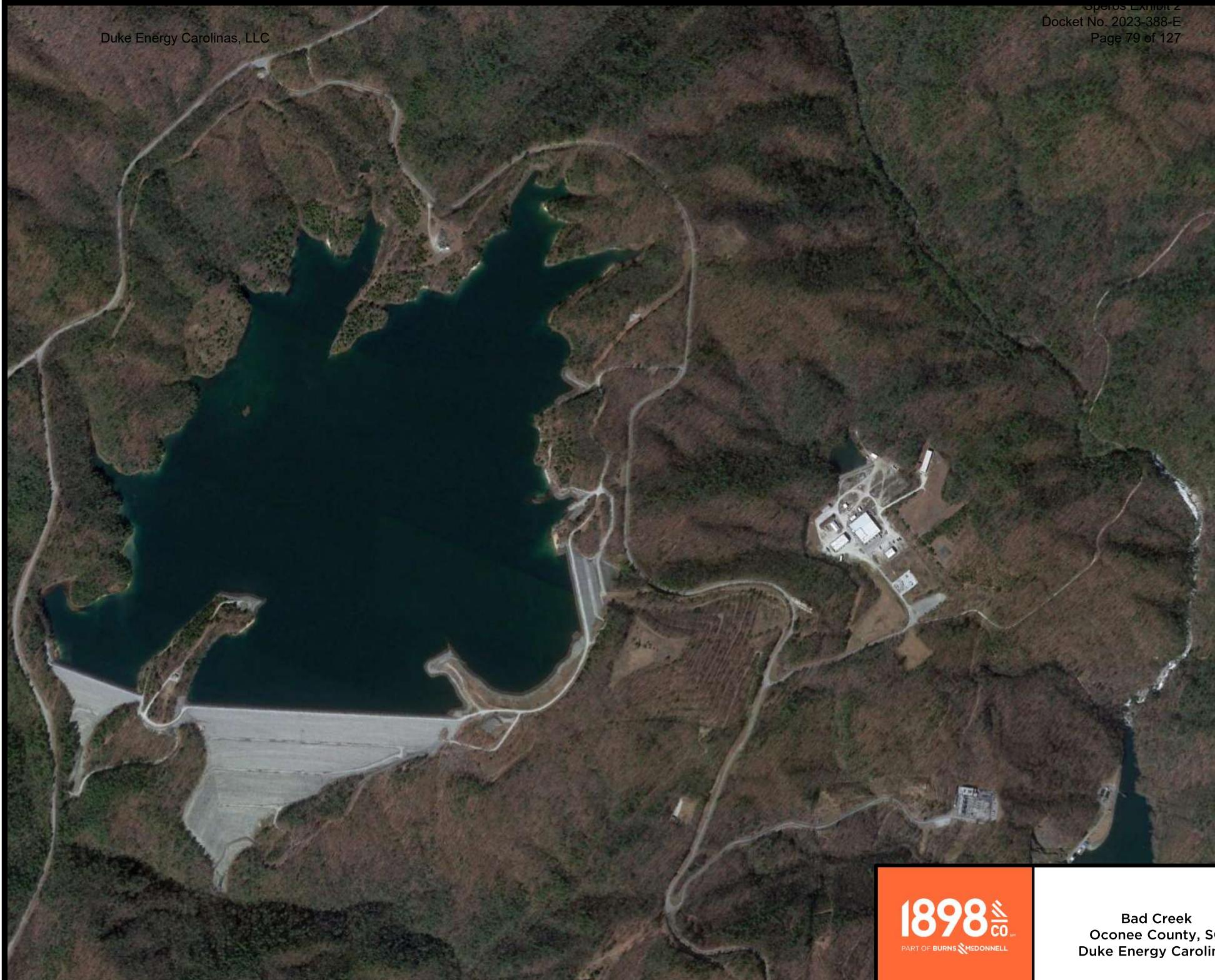


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Allen  
Anderson County, SC  
Duke Energy Carolinas

Duke Energy Carolinas, LLC

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Bad Creek  
Oconee County, SC  
Duke Energy Carolinas

Duke Energy Carolinas, LLC



Bear Creek  
Tuckasegee, NC  
Duke Energy Carolinas

Duke Energy Carolinas, LLC

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**1898 CO**  
PART OF BURNS & MCDONNELLBelews Creek  
Forsyth County, NC  
Duke Energy Carolinas

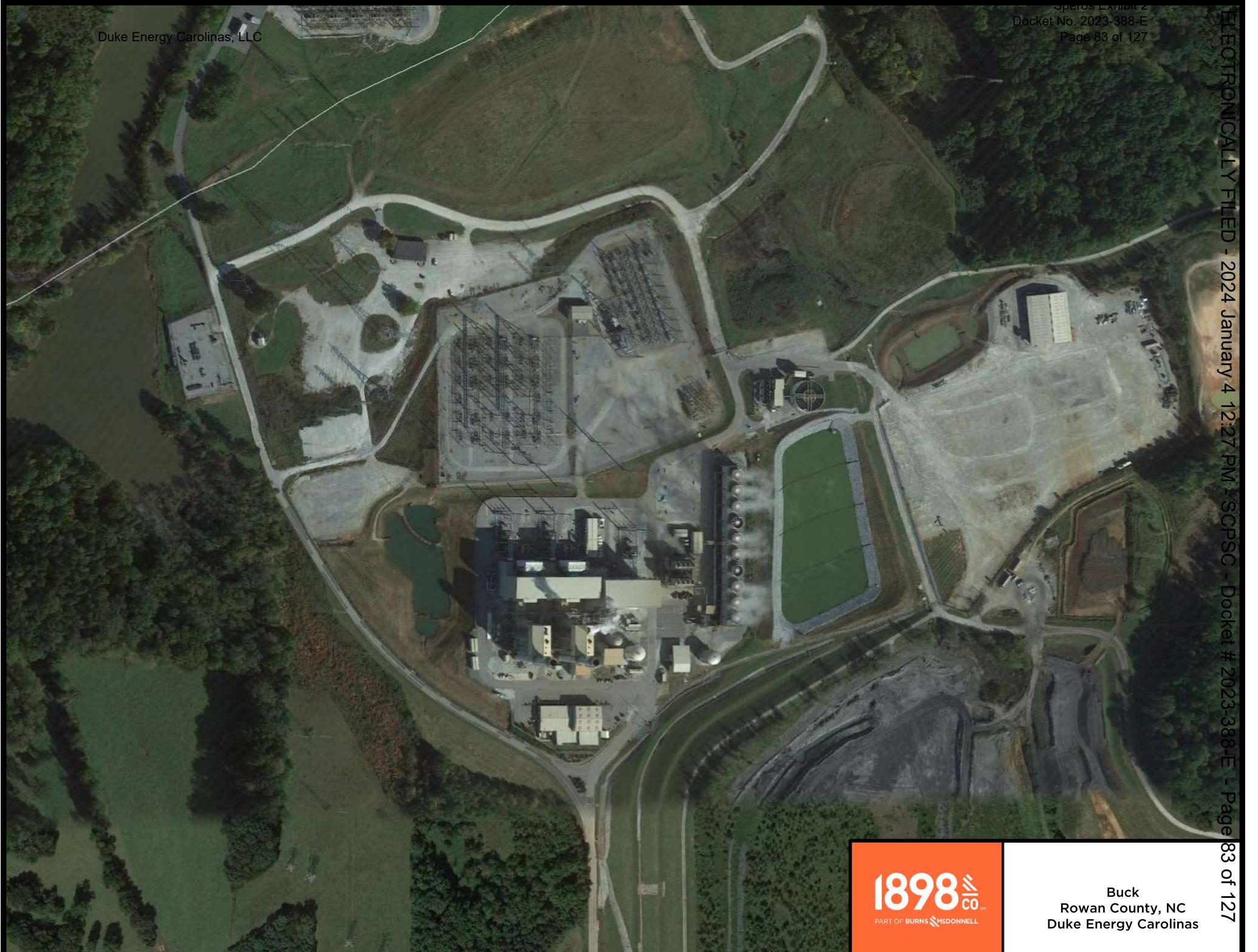
Duke Energy Carolinas, LLC



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PART OF BURNS & MCDONNELL

Bridgewater  
Morganton, NC  
Duke Energy Carolinas

Duke Energy Carolinas, LLC



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Buck  
Rowan County, NC  
Duke Energy Carolinas

Duke Energy Carolinas, LLC

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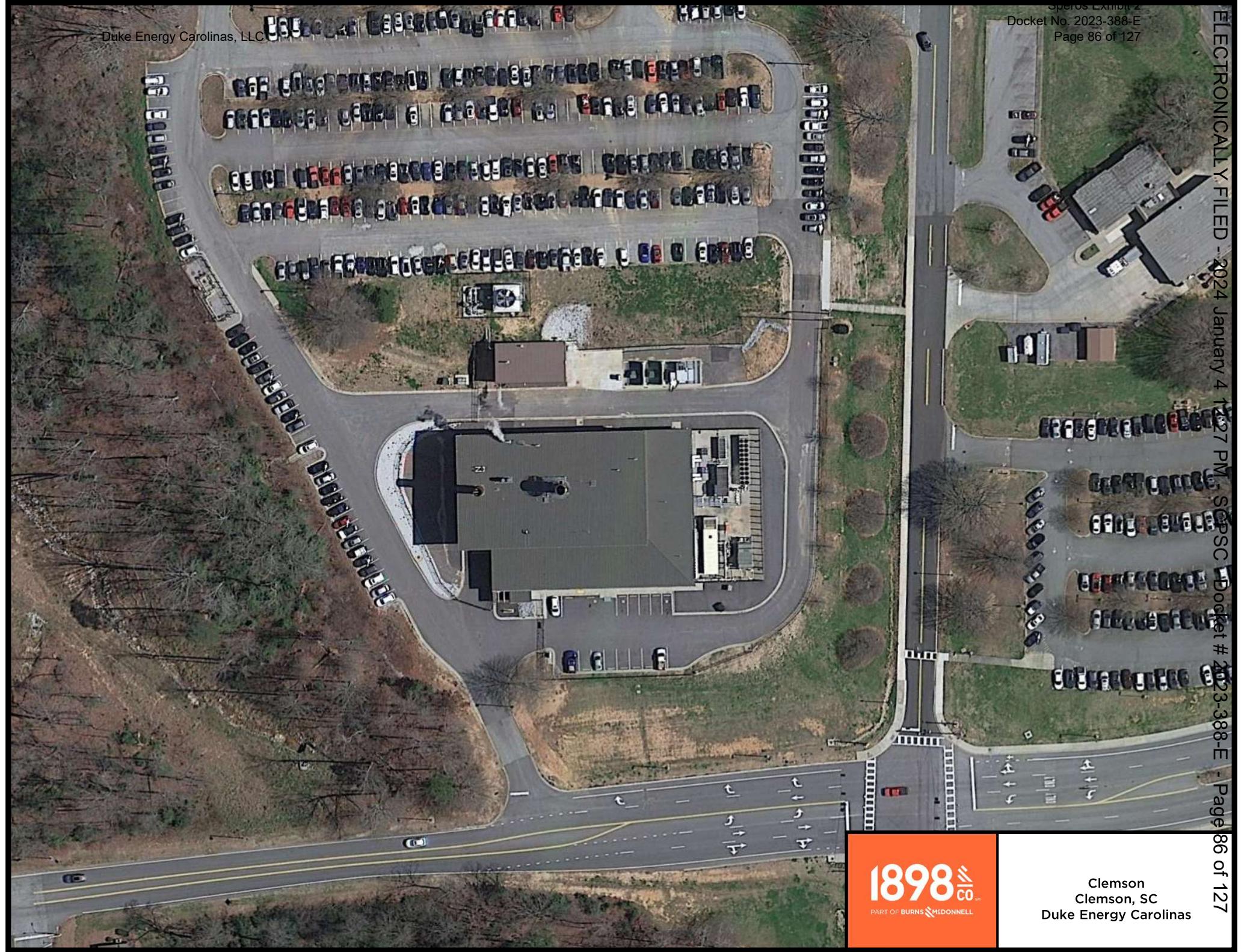


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Cedar Cliff  
Tuckasegee, NC  
Duke Energy Carolinas



Cedar Creek  
Rocky Creek, SC  
Duke Energy Carolinas



Duke Energy Carolinas, LLC

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Cliffside  
Cleveland, NC  
Duke Energy Carolinas



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Cowans Ford  
Mecklenburg County, NC  
Duke Energy Carolinas

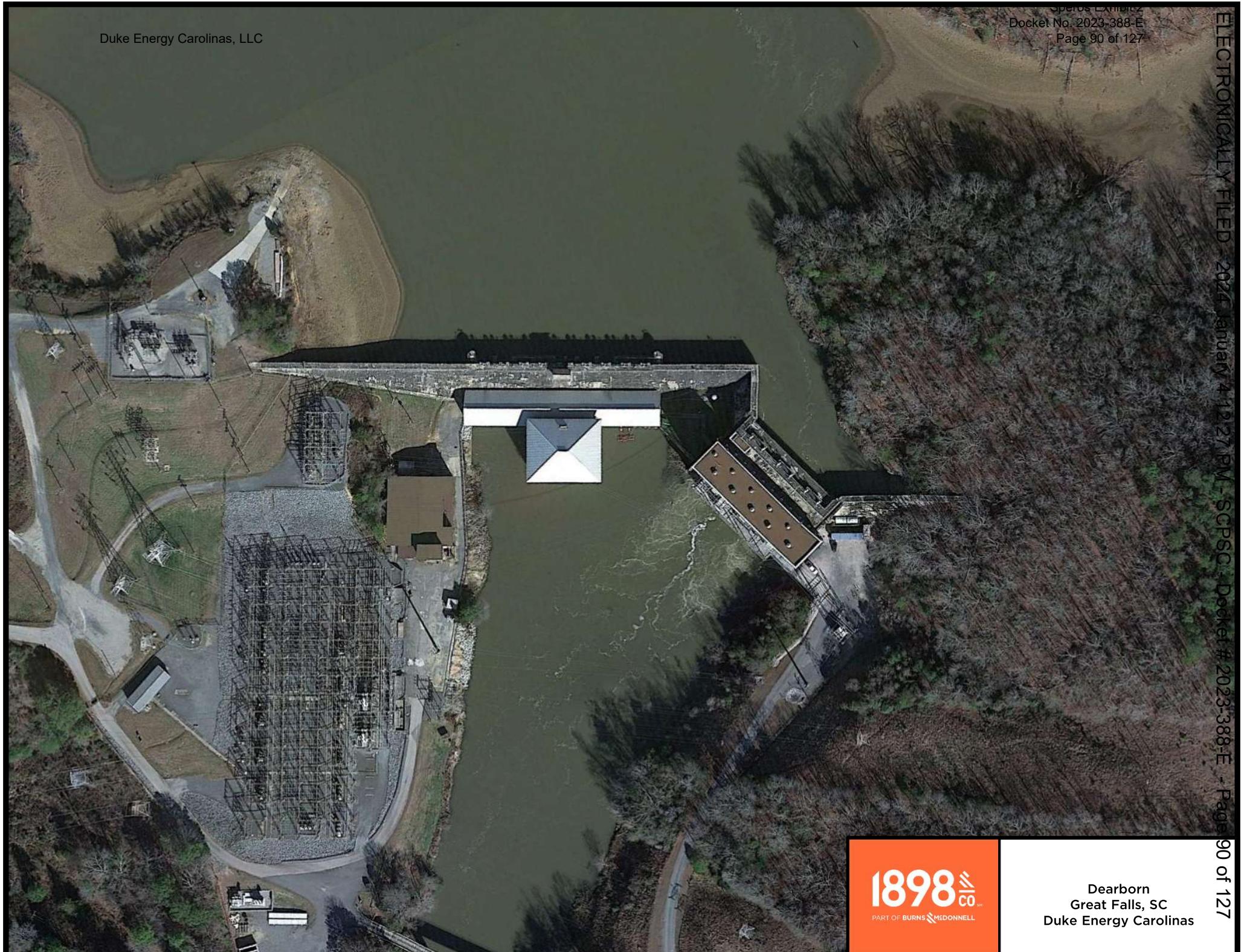
Duke Energy Carolinas, LLC

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Dan River  
Rockingham County, NC  
Duke Energy Carolinas



Dearborn  
Great Falls, SC  
Duke Energy Carolinas

Duke Energy Carolinas, LLC



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Fishing Creek  
Chester County, SC  
Duke Energy Carolinas

Duke Energy Carolinas, LLC

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Gaston Shoals  
Blacksburg, SC  
Duke Energy Carolinas



Great Falls  
Great Falls, SC  
Duke Energy Carolinas



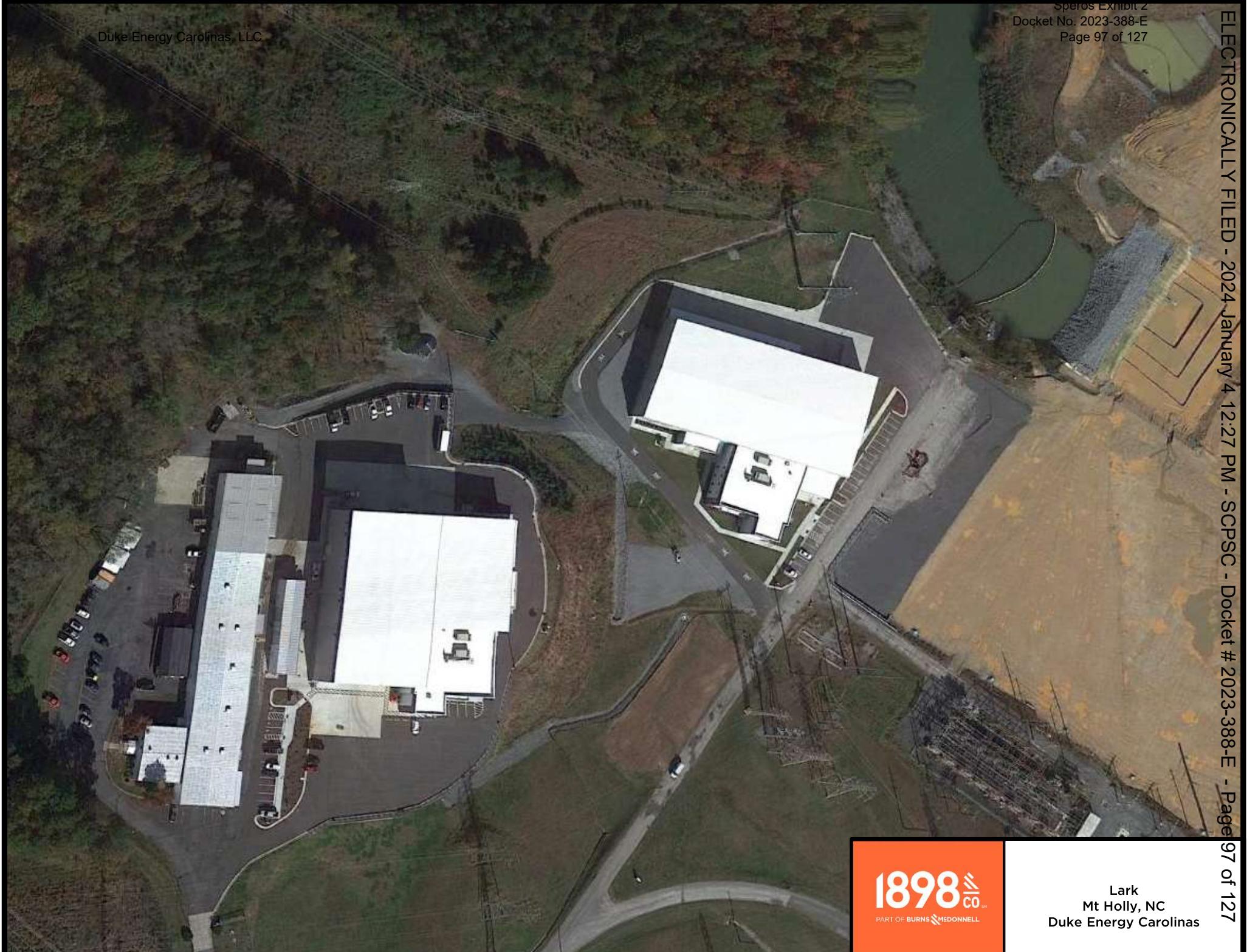
Jocassee  
Pickens County, SC  
Duke Energy Carolinas



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Keowee  
Pickens County, SC  
Duke Energy Carolinas

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Lark  
Mt Holly, NC  
Duke Energy Carolinas



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Lincoln  
Lincoln County, NC  
Duke Energy Carolinas



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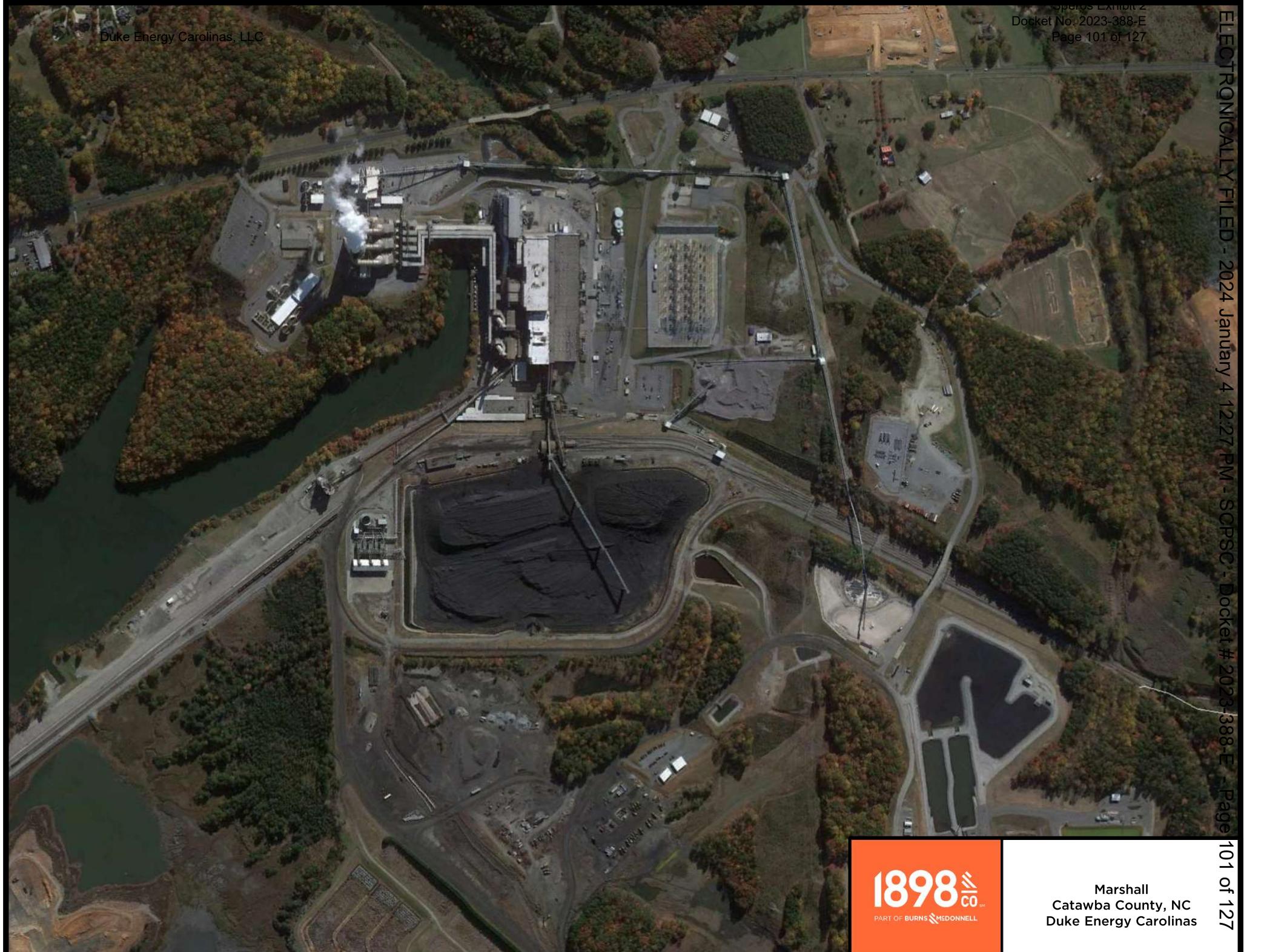
Lookout Shoals  
Pickens County, SC  
Duke Energy Carolinas



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Maiden Creek  
Catawba, NC  
Duke Energy Carolinas

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Marshall  
Catawba County, NC  
Duke Energy Carolinas



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Mill Creek  
Cherokee County, SC  
Duke Energy Carolinas



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Mocksville  
Davie County, NC  
Duke Energy Carolinas

Duke Energy Carolinas, LLC

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Monroe  
Union County, NC  
Duke Energy Carolinas



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PART OF BURNS & MCDONNELL

Mountain Island  
Gaston County, NC  
Duke Energy Carolinas

Powerhouse

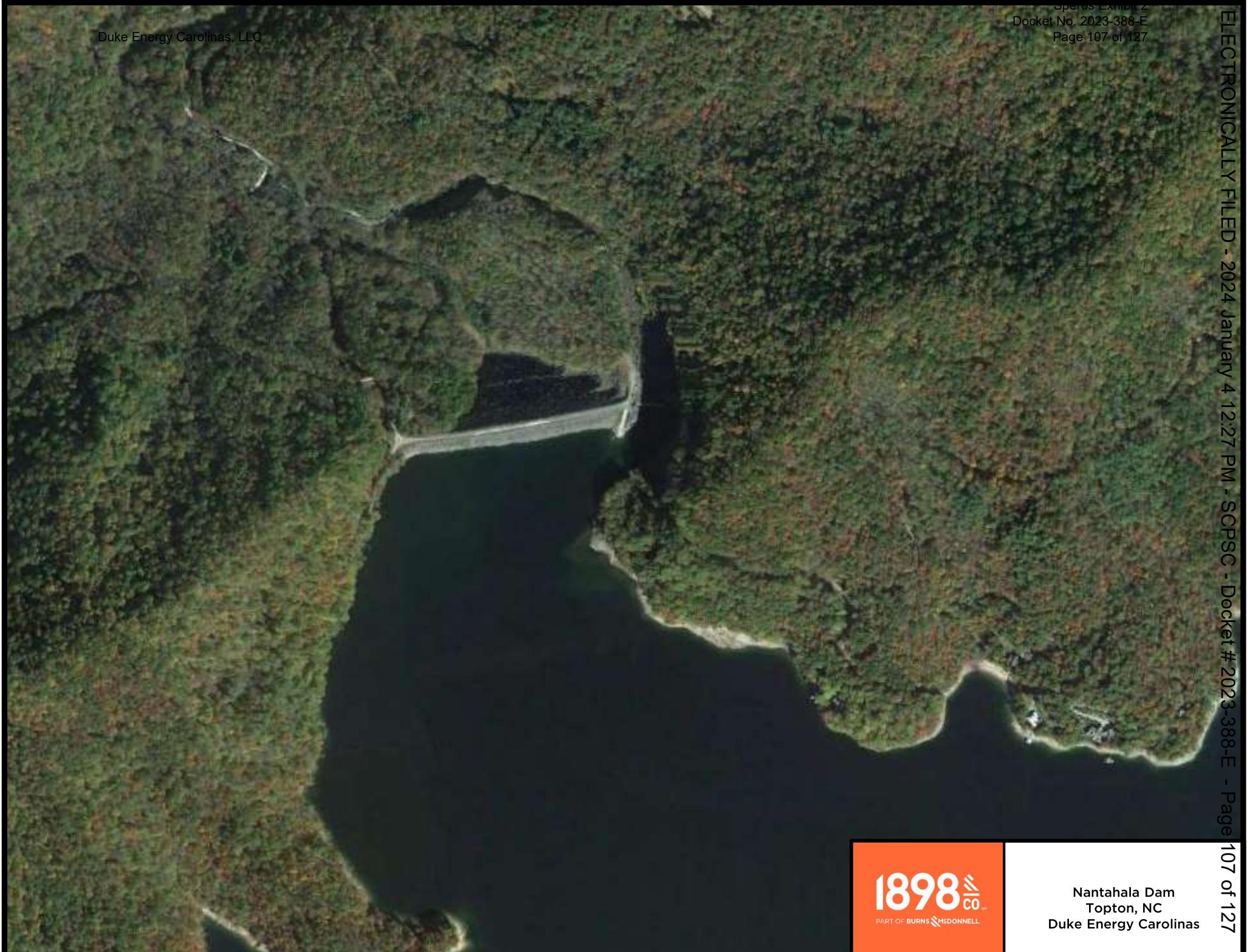
Dam



Nantahala  
Topton, NC  
Duke Energy Carolinas

Duke Energy Carolinas, LLC

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Nantahala Dam  
Topton, NC  
Duke Energy Carolinas



Nantahala Powerhouse  
Topton, NC  
Duke Energy Carolinas

Duke Energy Carolinas, LLC

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Oxford  
Hickory, NC  
Duke Energy Carolinas

Duke Energy Carolinas, LLC

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Queens Creek  
Topton, NC  
Duke Energy Carolinas



**1898<sup>co</sup>**  
PART OF BURNS & MCDONNELL

Rhodhiss  
Rhodhiss, NC  
Duke Energy Carolinas

Duke Energy Carolinas, LLC



Rockingham  
Rockingham County, NC  
Duke Energy Carolinas



Rocky Creek  
Rock Creek, SC  
Duke Energy Carolinas



Tennessee Creek  
Tuckasegee, NC  
Duke Energy Carolinas

Duke Energy Carolinas, LLC

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Tennessee Creek Dam  
Tuckasegee, NC  
Duke Energy Carolinas

Duke Energy Carolinas, LLC

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Tennessee Creek Powerhouse  
Tuckasegee, NC  
Duke Energy Carolinas



Thorpe  
Tuckasegee, NC  
Duke Energy Carolinas

Duke Energy Carolinas, LLC

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Thorpe Dam  
Tuckasegee, NC  
Duke Energy Carolinas

Duke Energy Carolinas, LLC



**1898** co.  
PART OF BURNS & MCDONNELL

Thorpe Powerhouse  
Tuckasegee, NC  
Duke Energy Carolinas

Duke Energy Carolinas, LLC



Tuckasegee  
Tuckasegee, NC  
Duke Energy Carolinas

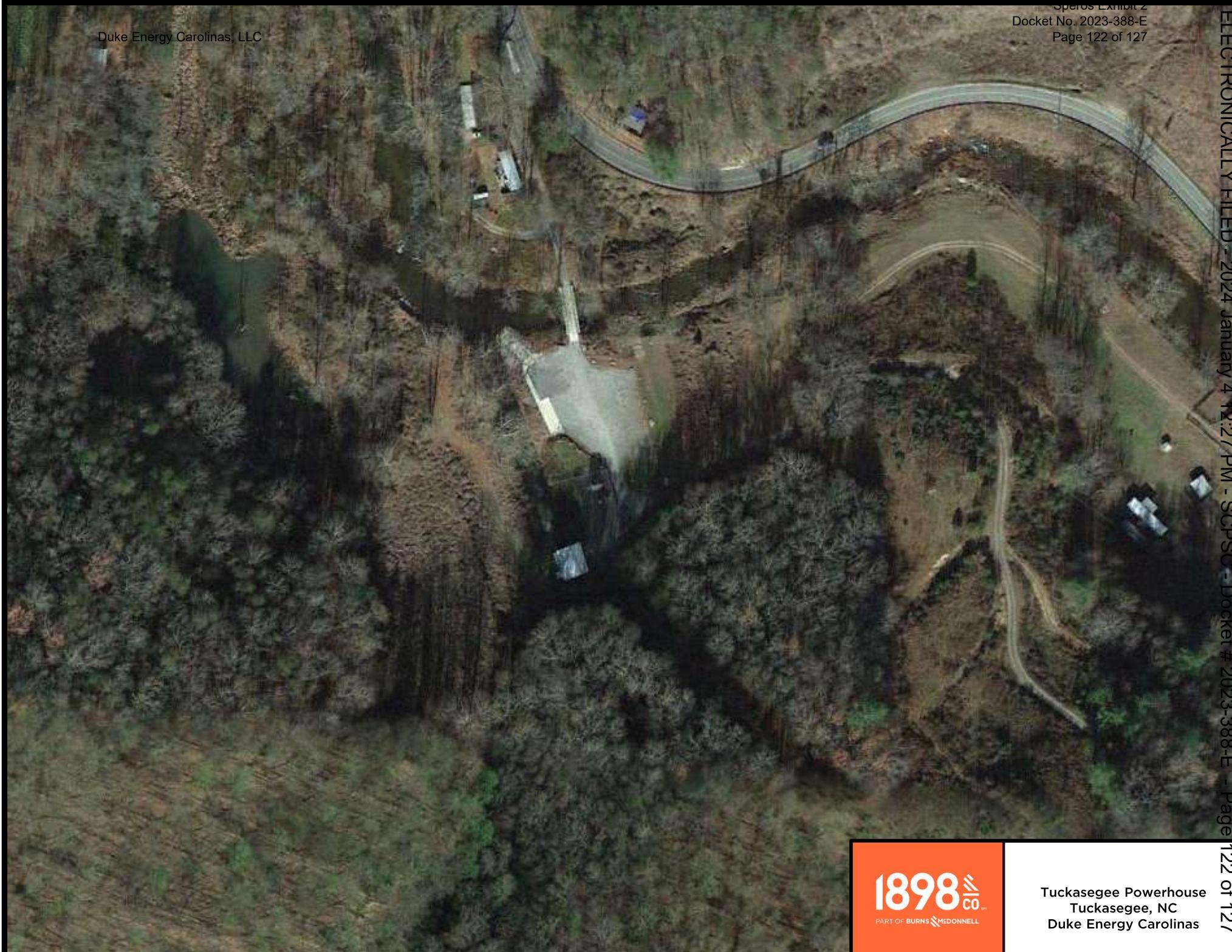
Duke Energy Carolinas, LLC

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Tuckasegee Dam  
Tuckasegee, NC  
Duke Energy Carolinas

Duke Energy Carolinas, LLC



Tuckasegee Powerhouse  
Tuckasegee, NC  
Duke Energy Carolinas



Wateree  
Fairfield and Kershaw  
Counties, SC  
Duke Energy Carolinas

Duke Energy Carolinas, LLC

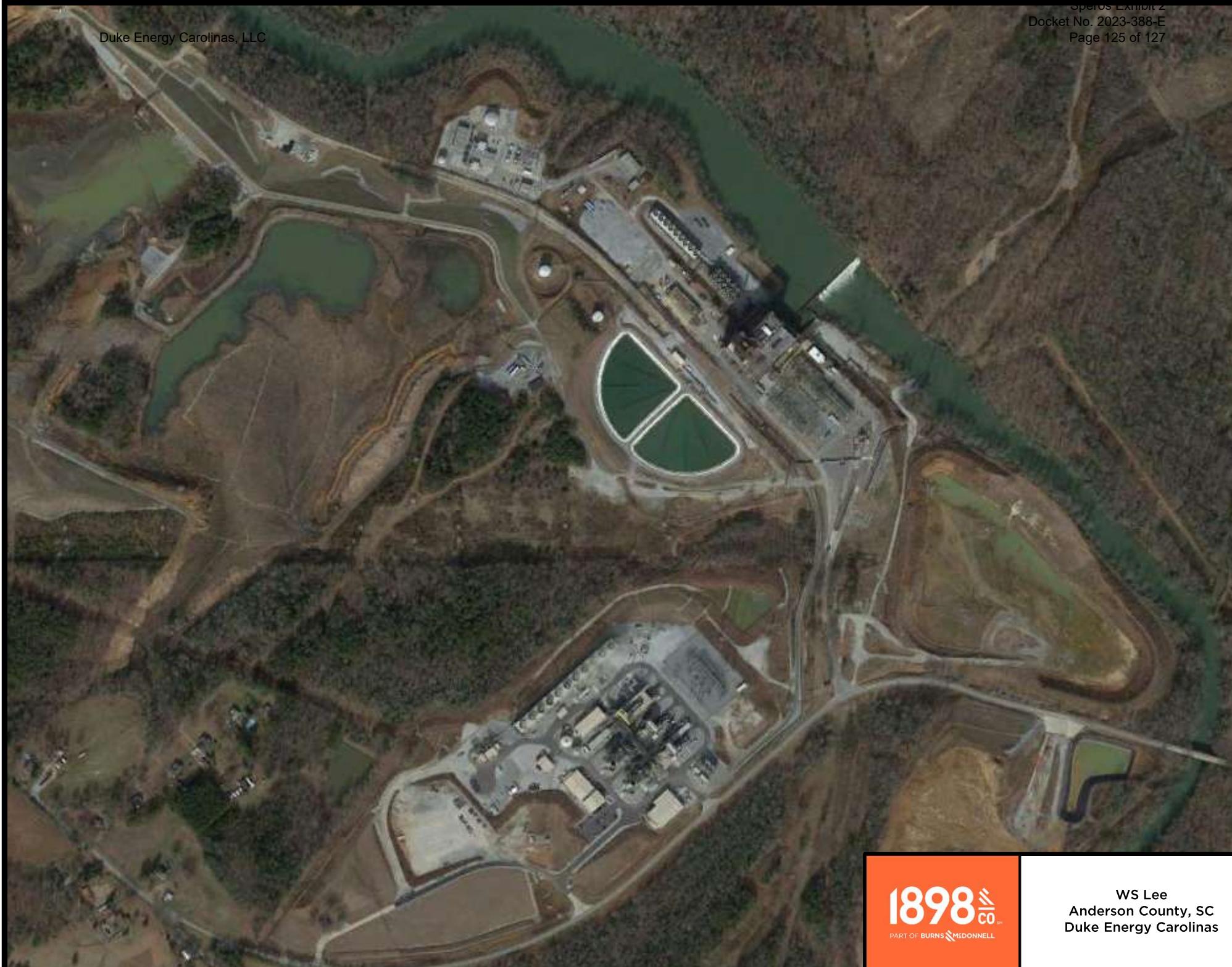
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Woodleaf  
Rowan County, NC  
Duke Energy Carolinas

Duke Energy Carolinas, LLC

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PART OF BURNS & MCDONNELL

WS Lee  
Anderson County, SC  
Duke Energy Carolinas

Duke Energy Carolinas, LLC

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Wylie  
York County, SC  
Duke Energy Carolinas



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